

David Clifton Owens

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PROFILE INFORMATION

Accomplished Full Stack Engineer with robust experience developing cloud-based solutions and microservice architectures. Successfully modernized legacy systems for federal agencies and built scalable REST APIs for major clients. Proficient in JavaScript, Typescript, Docker, Kubernetes, and ORM techniques while thriving in agile, high-performing teams. Poised to drive key product initiatives with innovative development and operational excellence.

SKILLS SUMMARY

Java: Java (Core) – J2EE - Java 1.21, Swing, Servlets, JSP, Struts, Spring Frameworks, Spring MVC, Spring, Spring Boot, Spring MVC, Spring Batch, Dependency Injection,

Backend: Cloud Platforms, AWS, GCP, Google Cloud Platform, Java API, OpenAI APIs, Web Services, REST APIs, SOAP Services, Microservices, GraphQL, XML, XSLT, JAXB, JSON, Linux, Redhat, Bash, Shell Scripting, Kafka, JBoss, WebSphere, WebLogic, TomCat, Multithreading, Distributed Caching, Operating Systems, Backend Services Scheduling,

Front End: HTML, CSS, JavaScript, TypeScript, React JS, Web Application Development

Data: PostgreSQL, Oracle PL/SQL, MS SQL Server, MySQL, DB2, SQL, JDBC, JPA, Hibernate, MongoDB, DynamoDB, Couchbase, Redis, Database Technologies

DevOps Splunk, Maven, Version Control Systems, Git, Subversion, BitBucket, ClearCase, Groovy Spock, JUnit, TDD, Test Driven Development, Unit Testing, Integration Testing, Automated Testing, Monitoring, CI/CD, Continuous Integration, Delivery (CI/CD), Jenkins, Maven, Git, Docker, Kubernetes, Eclipse, Idea IntelliJ, Jira, Confluence, OAuth, WSDL, Postman, SAML,

Methodology: Agile, Scrum, SAFe, Kanban,, Design Patterns, Application Security, Business Analysis, Programming Languages, Analytical Skills, Object-oriented Programming, Software Development Process Fundamentals

Domains: Internet, Information Services, Software Engineering, Government, Software, Cloud Computing

DEVELOPMENT PHILOSOPHY

Favor Agile Manifesto over Specific Frameworks; although, ideas may be taken from the frameworks.

Favor Adaptable Guidelines over Rigid Dogma

Favor thinking of software development as a craft. AI or other tools are aids to craft, not a replacement for craft.

Follow Aristotle's observation as a principal goal: "The whole is greater than the sum of the parts."

The source code is the final design document. The compiler and deployment tools are the factory that builds the software

Favor simple, maintainable syntax and logic over complex and terse syntax and logic, unless explicitly warranted

Favor TDD (Test-Driven Development), but not to the point that logic cannot ever be developed before testing when warranted.

Favor fostered and organic collaboration over forced regimens like pair programming or mob programming, although there is a place for each, be adaptable enough to work in any environment.

WORK HISTORY

SAIC

Developer (Java Full Stack)

01/2026 – 04/2026

Federal Contract to US Department of Treasury, Internal Revenue Service. Sunsetting expensive mainframe environments and moving away from legacy COBOL will remain important domains going forward. Well worth a software developer's time to understand.

Developing User Interface front-end forms using HTML, React, Java

Assisted in vetting Java code converted using AI in Janus Studio from Batch COBOL programs on a legacy mainframe. Did extensive testing and research to understand problems in these converted classes.

Active MBI Clearance.

EC3 Federal Services

Developer (Java Backend)

08/2023 – 11/2024

Federal Contract to US Department of Treasury, Internal Revenue Service. Many opinions of the US Income Tax that can be debated. It is the principal revenue of the Federal Government and it has an outsized influence on economic activity in the United States so it is very important.

Modernized legacy IBM 370 Assembly Language and COBOL code to a Java Application preventing a future crisis as existing Assembly Language knowledge ages.

Moved from Java 1.17 to 1.21 to facilitate keeping dependencies more current and also to prevent potential exploits.

Fixed defects in Core Java using Junit tests with Mockito and limited Spring, allowing the new software to go to production.

Deloitte Consulting

Java Backend Developer

07/2022 – 06/2023

Supported legacy modernization for the ITPE CADE2 Contract with the IRS allowing critical initiatives to move forward.

Moved from Java 1.8 to 1.17 to facilitate additional options that we could employ. It is also a more supported version which is important.

Note: EC3 and Deloitte were working on the same set of work, switched vendors as I became caught up in a downsizing of Deloitte's State Contract division that I was actually working from..

Infosys

Java Developer

08/2018 – 05/2022

PennyMac: Home ownership has been a hallmark of the Federal Government's Economic Policy since the 1930's. It has been through Federal Quasi-Government Corporations Freddie Mac, etc. that mortgages have been originated and traded. PennyMac is a private mortgage company doing the same thing for the same very important reason.

Developed and launched a revenue-enhancing feature for prorated early funding interest, improving financial services operations and revenue potential.

Assumed lead responsibilities during a colleague's maternity leave, ensuring project continuity and team productivity.

Maintained an application for trading mortgage-backed securities on the open market.

Utilized Java– Spring Boot, Spring Batch, Hibernate with a PostgreSQL database through REST APIs for fixes and enhancements.

Interacted with various lending and IT stakeholders to gather requirements and ensure alignment, resulting in successful project outcomes.

American Express: Consumer Credit in the form of Credit Cards has been an important economic driver in the consumer economy since the 1950s. American Express has been a leading financial services company in that endeavor.

Enhanced and maintained two web applications that facilitated international banking partners. These were Java, JavaScript, JSP and JQuery applications. Jira was the main ticketing system.

Developed the first ever Java-based REST API that my team had written. It ran successfully for over two years with only minor maintenance to provide loyalty data for employee credit cards for major corporations.

Utilized Java, Spring Boot, and Spring JDBC to obtain data from DB2 and later Oracle databases, as a strategic move to Oracle became increasingly likely.

Delivered solutions that worked without failing even though volume exceeded projected volume expectations by over 200 times.

These Java projects used a Jenkins Maven-based CI/CD pipeline using Docker and GCP Google Cloud Platform. Kubernetes was used in lower environments as a test for eventually employing Kubernetes orchestration in production.

Managed Maven dependencies and used IRIS to report security vulnerabilities, ensuring that libraries did not become a gateway to malware exploits.

State of Oregon

Full Stack Java Developer

10/2017 – 04/2018

Abraham Lincoln, in the Gettysburg address, states some thoughts about the US Civil War and what it was attempting to accomplish. Among other words, he stated the proposition that, "...government of the people, by the people, for the people, shall not perish from the earth." It is ironic that the main responsibility in assuring Lincoln's vision rests not with the Federal Government but the individual states through their enablement of free and fair elections.

Worked in the State of Oregon's Secretary of State's Office, Elections Division on registered voter software. Individual voters may on-line register or change their registration.

Enhanced election software using Java, Oracle, Struts, and JSP for backend, and JavaScript and JQuery for frontend, ensuring robust and user-friendly voter registration processes

Developed a rough Kafka proof of concept.

K Force

Full Stack Java Developer

10/2016 – 01/2017

US Bank: Developed software enhancements for US Bank's Affinity Credit Card business to comply with Federal KYC (Know Your Customer) regulations, enabling US Treasury officials to identify potential terrorist money laundering operations.

Modified **Java** backend software including JSP and some JavaScript to implement KYC.

This project leveraged elements of Spring as well as Web Services.

Randstad Technology

Back End Java Developer

08/2015 – 08/2016

Nike: It is hard to separate Nike and the Oregon outdoors live in the environment ethos. Nike is perhaps more important to Oregon than largest companies in the state are to most states. That being said, do I like everything Nike does? No. But I can acknowledge Nike's importance to the Portland metro area and also to the state as a whole.

Developed a Java Microservices architecture backend for a Content Management platform, enhancing system scalability and performance.

Utilized AWS technologies including DynamoDB, Netflix Circuit Breaker, Netflix Asgard, EC2, and Lambda services to implement scalable and reliable microservices.

Implemented a CI/CD platform that used Jenkins and Maven with extensive work in Junit and integration testing. The project leveraged JavaScript and the Aurelia front-end.

Thomson Reuters owns the Reuters news agency is one of the most prestigious and oldest information gathering companies in the world it was founded in London in 1851

Contributed to making a Tax Data application proof of concept production-ready, enhancing its functionality and reliability

Developed REST services that utilized a schema to allow the caller to control the payload, very much like GraphQL for data in a MongoDB NoSQL database. The services leveraged Java 8 Streams.

Helped design a Junit strategy for Integration testing that used Groovy Spock and Junit.

Utilized Spring Framework, Spring Data, and Spring JDBC with Dependency Injection to streamline backend processes

CACI

Senior Developer

09/2013 – 04/2015

US Dept of Veterans Affairs: The importance of the Department of Veterans Affairs really needs no explanation it is the primary vehicle in which the US keeps its promise to the Veterans who have served our country.

Developed RESTful Web Services in Java and Node.js to provide access to documents stored in a MongoDB database, enhancing data retrieval efficiency. Initially created services in Java and later transitioned to Node.js to leverage its non-blocking IO capabilities, improving service performance.

Contributed to the VA's VLER (Virtual Lifetime Electronic Record) project, similar to an EMR (Electronic Medical Record) in healthcare, by developing backend solutions that improved data management and accessibility for veterans.

Power IT

Desktop Java Developer

12/2010 – 04/2013

H&H Colorlab: Anyone can process photographs now with a quality ink jet printer and photo paper. This is great put it makes the business case for professional photographers more difficult. H&H has equipment that can print photographs on metal, on plastic, and can do large form banners. There are critical technologies that can extend a professional's life. These niche business opportunities are the life blood of so many professional crafts now.

Enhanced and maintained H&H Colorlab's order entry system using Java FX and Swing components, significantly improving the system's functionality. Developed a prototype for importing Photoshop .psd files, streamlining the order process.

The order entry system used the parsing of XML files containing catalog and pricing data, which were used to create XML files that represented orders. Because the Order Entry system allowed for cropping and for graphical techniques to be applied to photos it used a great deal of Java's 2D and 3D graphics packages.

Used multi-threading to allow in-progress screens without halting the Swing UI thread.

N-Link Corporation

Desktop Java Developer

08/2007 – 09/2010

US Department of Agriculture: The Department of Agriculture has an important role to play in national defense. A nation that cannot feed itself is seldom stable over the long term.

Led the development of a project to rewrite 80 existing web services across 13 logical domains, exposing USDA's master reference tables using SOAP payloads, and applied CI/CD principles with Maven, Junit, Cactus, and Emma, improving integration efficiency.

Led a pilot project for the Architecture Office for the use of Agile and Scrum contributing to the office's development process improvement outreach.

Also supported the formation of a new performance optimization lab. The lab monitored applications as they ran live in production to discover bottlenecks.

A thorough examination of Hibernate performance was a large part of this lab's mandate. In many cases poor mapping and a great deal of abstraction caused performance issues in the USDA's applications. Used Redis key value in memory caching to make data retrieval faster.

Ambient Resources LLC

Business Analyst – Lead

01/2003 – 05/2007

Accredo Health Group: Pharmacies are becoming increasingly important to healthcare as new drugs are introduced. A specialty pharmacy generally is oriented to chronic diseases that use injectable infusion therapies that require more involvement with the patient than traditional retail pharmacies. It isn't an exaggeration to suggest that many of these therapies and the methods of getting these drugs to the people who need them are matter between life and death. This is particularly true of hemophilia coagulant.

Participated as a lead developer initially in reporting software as part of an acquisition that used Oracle Forms and Reports. Much of my initial work was in SQL query tuning for performance optimization.

Served as the lead analyst for creating a prescription transfer integration between Accredo and Medco, acting as the primary liaison among various stakeholders. This integration was completed on time and resulted in 1 out of every 6 prescriptions being filled through the new system.

This used an Oracle Workflow product and was done rapidly, more than from 0 to 15 resources, including tool section and requirements mapping, including custom development in four months

In time, Medco chose to acquire Accredo in a 2.3-billion-dollar acquisition largely as a result of the success of this project.

Comsys

Java Software Developer

01/2003 – 05/2007

Bell South: One of the chief drivers of economic growth in the last twenty to thirty years has been in telecommunication advancements. It has vast implications on daily life and in safety and welfare of the American people.

Contributed to the creation of a data warehouse, enabling Bell South to comply with new government regulations for entering the long-distance market.

Java and the Versant datastore were used for persistence. DataStage was used as an ETL for obtaining the Versant data.

Metro Information Systems

Java Software Developer

11/1999 – 06/2001

VML, Mortgage Guarantee, and Capital One: Began Java development by doing contract work in the basics, including Servlets, JSP, XML, and JDBC using Oracle databases and WebLogic and WebSphere application servers.

EDUCATION

Metropolitan Community College, Longview campus

Associate of Arts

01/1995 – 06/2000

General Studies with some information systems and software development including Java coursework missed in.

CERTIFICATIONS

Certified Business Analysis Professional (CBAP) – IIBA - expired

03/2015 – 03/2021

I had to let this lapse during the Covid pandemic. My wife became ill and I couldn't recertify.

Sun Certified Java Programmer (SCJP) – Sun Microsystems

05/2000 – 09/2099

Covers the fundamentals of the Java language and platform.

PROFESSIONAL RECOMMENDATIONS

Dave Fitch, PennyMac (Private National Mortgage Acceptance Co.)

I supervised David, as he provided operations system support to a vital system in our daily loan processing. David was brought in to fill in for another staff member who had to step away. David came up to speed quickly. I soon came to appreciate David's work ethic and thoughtful approach to his responsibilities. When critical data issues occurred, he was willing to step up and invest whatever input was necessary to address the issues. In addition, David was reliable in attending meetings and quick to respond to emergencies that occurred. David also was proactive in following up on issues that occurred, to try and prevent them from reoccurring. Finally, David was enjoyable to work with.. both easy going and building good rapport with those in our organization, while still taking the work responsibilities seriously. I would recommend David for future openings and would welcome working with him again in the future.

Gretchen Jones, USDA, Accredo Health, Continental Healthcare

I've worked with David at three companies over the course of twenty years. David has always provided value to the teams he worked with through thoughtful analysis and conscientious application of technique. He keeps current on technology issues and does overall excellent work. I have been on the receiving end of his design, coding, and documentation and have always thought his end product was delivered with clarity and precision. He mentors coworkers without bias is patient and helpful with junior developers. He would excel on a collaborative team but can also work independently. David would be an asset to any organization.

Terry Mullett, USDA, VML

I have worked with David on two engagements and have known him for about 10 years. He has always impressed me with his dedication, the diversity of his technical skills and his ease in interacting with people. David brings wonderfully formulated insights to the problem at hand, and expresses those insights well.

Laurie Craig, Accredo Health

I had the honor of working with David at Accredo HealthSystems. David is an energetic, knowledgeable self-starter and takes his responsibilities seriously. He recognizes that excellence is a journey and not a destination which speaks volumes in regards to his work ethic. He was always willing to accept responsibility for his work and work with the other teams to resolve any conflicts and bring the project to a successful completion. David was instrumental in building the teams and designing the architecture necessary to take Accredo to the next level and make them a major competitor in the industry. I would enjoy the opportunity to work with David again!

Maribeth Greene, Accredo Health

David and I worked together on several projects at Accredo Health. I consider David a master at his craft. He is diligent, detail-oriented, and customer-focused. He was able to take the complicated needs of the business and provide a successful end product. I still consider the Medco / Accredo alliance one of our greatest accomplishments and I believe it would not have been possible without David. I would want David a part any team based on his dedication to meet aggressive deadlines and exceed expectations.

Lorna Thompson, Accredo Health

During my 20+-year career as a Technical Writer, Technical Editor, and Business Analyst, David has been one of the most exceptional programmers with whom it has been my pleasure to work.

In addition to working literally shoulder-to-shoulder with Dave for over seven years at Continental Healthcare Systems, where he was THE SME for the company's Matkon 2000 product, we later worked together as contractors on a conversion project for Gentiva Health Services/Accredo Health Group. Our team for this project included Dave as Development Lead, and me as Senior Business Analyst.

Accredo is a specialty pharmacy division of Gentiva focused on the time-critical, overnight delivery of diabetic drugs and insulin infusion supplies. Specifically, Dave and I worked on a clinical reports conversion project migrating pharmaceutical data from an AS400 system to an Oracle environment. Accredo was converting from a legacy reporting system to a new system that they had inherited through the acquisition of Gentiva Health Services. The newly acquired system required extensive customization because Accredo is a much larger operation than the older system was designed to support.

Dave lead our team's programmers in an agile development model through multiple iterations to obtain the required data. Dave's flexibility and talent were key to the success of the project.

Stephanie Simpson, Accredo Healthcare

David Owens served as a lead technical analyst and consultant during his years at Accredo. The work that David produced at Accredo directly resulted in the generation of significant revenue for the company. David was highly effective in his role because he was able to interact with both business audiences to define requirements and developers to communicate and document detailed technical requirements and specifications in a timely manner. I knew that I could count on David to go the extra mile to meet target dates for delivery and exceed customer expectations.