

JEFFREY W. ROBINSON

AI Developer | Legacy Modernization | Java, Python, AWS

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PROFESSIONAL SUMMARY

AI Developer and legacy modernization engineer with 20+ years of enterprise IT experience across Java, Python, APIs, OAuth, mainframe modernization, and federal delivery. Specialized in translating critical legacy systems into maintainable Java and cloud-ready services while building practical AI-enabled portfolio projects for code understanding, modernization analysis, and security review.

CORE SKILLS

AI / Modernization	AI-assisted modernization, legacy code analysis, modernization notes, RAG concepts, prompt-assisted code understanding
Languages	Java 17, Python, C/C++, IBM Assembler, JavaScript, SQL, XML/XSL
Enterprise Platforms	Spring Boot, Spring Framework, JAX-RS, JAX-WS, JEE, WebLogic, WebSphere, IBM Portal/Portlet, Hibernate
APIs / Security	REST APIs, SOAP, SOA, OAuth 2.0, JWT, JWKS, CA Layer7 API Gateway, SiteMinder, LDAP, XACML
Federal / Legacy	IRS, CMS, SSA, FEMA, z/OS, TSO, Endeavor, DB2, COBOL/Assembler conversion, parallel testing
Tools	Eclipse, GitHub, IBM Rational CLM, ClearCase, ClearQuest, Splunk, AppDynamics, Control-M, Agile/Scrum

AI PORTFOLIO AND CREDENTIALS

- AWS Certified AI Practitioner; IBM AI Developer Professional Certificate; Certificate in Project Management; Oracle Certified Professional for Java; Oracle Certified Web Component Developer.
- Legacy System Knowledge Assistant: portfolio project concept for extracting entities, relationships, business rules, API candidates, and modernization notes from complex source repositories.
- OAuth + AI Security Analyzer: planned AI-assisted analyzer focused on OAuth flows, configuration issues, policy gaps, and reviewable security recommendations.
- CodeCraftHub Course API: Flask REST API for course tracking and status summaries. Repository: github.com/jeffreywrobinson/robisoftware-codecrafthub_learning_platform.

PROFESSIONAL EXPERIENCE

IBM Corporation | Lead Java Developer & Accelerator Tool SME (Contractor) | May 2024 - Mar 2026

- Supported IRS BMF and IRMF modernization initiatives converting legacy Assembly and COBOL assets into Java components using IBM ARC acceleration tooling.
- Designed and developed Java components with Eclipse, JAX-RS, Spring Boot, and Spring Framework patterns for microservice and event-driven modernization targets.
- Analyzed regenerated code outputs, preserved business behavior, and supported integration testing against mainframe infrastructure including TSO, Endeavor, and DB2.
- Integrated reworked Java services with mainframe DB2 reporting and export processes while supporting defect analysis and parallel-result validation.
- Trained new team members on accelerator tooling, command-line workflows, and Eclipse-based modernization processes.

Accenture Federal Services | Senior Java Consultant (Contractor) | Mar 2022 - May 2024

- Converted IBM z/OS MVS Assembler components into Java 17 coding units for the IRS CADE2/ITPE re-engineering project.
- Performed logic harvesting, control-flow analysis, debugging, and result comparison between legacy Assembler and Java implementations.
- Supported SAT, functional testing, regression testing, and defect remediation to ensure re-engineered components matched legacy processing outcomes.
- Mentored junior developers on Assembler logic harvesting, modernization analysis, and defect resolution practices.

Strategic Technology Partners, LLC | API Gateway Engineer | Feb 2017 - Feb 2022

- Engineered OAuth 2.0 processing for IRS E-Services using Broadcom/CA Layer7 API Gateway versions 9.4 and 10.0.
- Designed OAuth grant flows including Authorization Code, Authorization Grant, and JWT Grant flows using the CA OAuth Toolkit and RFC 6749 patterns.
- Built custom client registration, client authentication, JWKS private-key integration, API policies, audit logs, and Terms of Service workflows.
- Integrated API Gateway capabilities with SiteMinder, LDAP, TEWS SAAS, Axiomatics PDP servers, REST APIs, XACML payloads, Splunk, AppDynamics, and Control-M.

- Led API design, gateway configuration, database maintenance, troubleshooting, deployment support, and operational documentation for IAM project teams.

CSRA, Inc. | Technical Lead / *Feb 2015 - Jan 2017*

- Led CMS PQRS Submissions Java/JEE development teams building SOA components on WebLogic 10.3.6.
- Translated customer design input into technical specifications, XML/XSD schemas, deployment plans, and implementation plans.
- Delivered major public-facing releases and validation tooling while coordinating QA, IV&V support, and production deployment activities.

IBM Corporation | Senior Consultant / *Aug 2012 - Mar 2015*

- Led small development teams on federal contracts with the Department of Education, Social Security Administration, and FEMA.
- Delivered J2EE, IBM Portal, Portlet, JAX-WS, XML, HTML, Oracle SQL, and Rational ClearCase/ClearQuest work across production releases.
- Supported modernization, Section 508 compliance, reporting, UI remediation, and SOA web-service delivery.

Earlier Java, Web, and Legacy Engineering | Senior Java/JEE Developer, Project Manager, Consultant, Programmer Analyst / *2003 - 2012*

- Delivered Java/J2EE, portal, database, reporting, mobile prototype, UI, validation, WebSphere, WebLogic, DB2, Oracle, PostgreSQL, JSF, jQuery, XML/XSL, and Liferay work across CMS, DOT, AHRQ, and commercial environments.
- Led re-engineering of American Express credit authorization and file-maintenance processes from TPF Assembler to C++ and database-backed services.

EDUCATION

M.S. in Information Technology, Capella University,

B.S. in Computer Science & English, University of Alabama