

MARVIN SERRANO CORSER

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GitHub page (code samples): <https://github.com/MSerrano0410>

Software Engineer

Full-Stack Development | Documentation & Unit Testing | Mentoring | Bilingual

Full Stack software engineer with over 13 years of experience with multiple tech stacks in the public and private sectors. Fluent in English and Spanish. Quickly adapts new skills with an independent, self-driven attitude, has an eye for detail when developing new software or working with existing code bases (thorough documentation, unit tests, refactoring to meet modern coding standards), and can easily gather requirements from and work with technical and non-technical clients to deliver quality, timely work that meets their needs.

Areas of Expertise

- Over 13 years of experience as a full-stack engineer in multiple back-end languages such as PHP, Python, and Java
- Over 13 years of experience as a senior software engineer and mentor to junior engineers
- Effectively communicates with technical and non-technical coworkers and clients to efficiently gather requirements and streamline the Software Development Life Cycle

Technical Proficiencies: Java (AWS Java API, JDBC, Spring Boot, Apache POI, Java Spark), Python (PySpark), AWS (S3, EC2, IAM, AWS Translate), Maven, Git, Unit testing (JUnit, Jest), Front-End (HTML, CSS, JavaScript, React), Drupal, WordPress

Education

Bachelor of Science, Information Technology Pennsylvania State University	2007- 2010 3.96 GPA
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Work Experience

Databricks Engineer (Contractor) IBM	June 2025 to March 2026 Arlington, VA
• Modernized a legacy Java IRS application to create reports such as SSA Death and State Levy from millions of taxpayer records, reducing the IRS's reliance on costly and unsustainable legacy technology. This contract primarily used Databricks as a data warehouse solution with PySpark to process input and parse millions of records into CSV output reports, housed in either Databricks (DBFS) or S3. • Pivoted gracefully to Java Spark instead of PySpark; the IRS client changed requirements mid-contract to primarily develop this solution using Java Spark. Being the Java SME on the team, I quickly pivoted the code base and delivered the finalized product before our 03/20/2026 deadline. • Mentored fellow developers on the team in Java Spark and the Databricks Java SDK, since they primarily had a Python background. • Automated PySpark scripts to create test data and files in Databricks to overcome the limitation of not having test data to compare our refactored results against. This required deep understanding of the business logic and repeated client meetings to ensure this, and resulted in the team being able to deliver the first draft of the product 1 month ahead of schedule.	
Lead Software Engineer (Contractor) Vibrantech	October 2024 to May 2025 Leesburg, VA
• Launched a React-based .docx editor that the client was asking for since 2023 with no traction prior to my onboarding. This requirement circumvented the need for clients to manually download, edit and upload docx files back to an AWS Translate instance within the IRS AWS environment, and saved the client several minutes of work, especially for repeat translations. • Spearheaded the transition from an Accenture development environment to an internal IRS development	

environment. This involved heavily modifying both the React front end and Java/Spring Boot back end to conform to the limited Maven package and application availability within the closed IRS network.

- Transitioned the legacy application from JDK11 to JDK17, and from Spring Boot 2.6 to 3.4. The successful transition to developing in the closed IRS network facilitated this effort, as both the Accenture and Vibrantech teams were able to collaboratively tackle these large projects as a result of my work.
- Instituted code reviews, unit tests (which were not present prior to my onboarding), and thorough documentation, resulting in a 50% reduction in introduced bugs according to QA tools like Selenium

Full-Stack Software Engineer/Consultant
Deloitte

August 2021 to October 2024
Arlington, VA

- Successfully migrated a legacy Navy application to monitor and detect icebergs, written in C#, to Java (JDK17). This allowed the development team to use MuleSoft to enhance data validation and offer over a dozen more XML formats to convert from a proprietary Navy format.
- Implemented an animal study statistics gathering addition with real-time front-end updates and predicting statistics for future studies, to a 20 year old Java/React FDA application to monitor animal product studies
- Introduced thorough unit testing (JUnit and Jest), documentation, and proper coding standards to the above projects, reducing new bugs being introduced by over 60% according to Selenium reports
- Efficiently gathered requirements and business logic from non-technical government clients, and presented suggestions, progress, and product features I've implemented in high-level terms
- Mentored junior engineers in the above code bases and client-specific XML formats and business rules

Full-Stack Software Engineer
ECS Federal

January 2020 to August 2021
Fairfax, VA

- Within two months of onboarding, I successfully transitioned a legacy frontend XML editor to Oxygen XML Editor within RSuite after teaching myself DITA
- Created a website from scratch for imagery packages utilized by advanced geospatial AI programs using React and TypeScript
- Configured Enzyme in our React project to allow for unit tests that simulate frontend user activities. This allowed for previously-impossible event handler testing in Jest, allowing the team to diagnose and fix frontend bugs much more efficiently
- Created an extensible class framework using React and TypeScript for my fellow developers to quickly create React components on the fly just by creating an instance of my classes

Full-Stack Drupal/Wordpress Software Engineer
Kingfisher Systems

December 2016 to January 2020
Falls Church, VA

- **Please note that the parent company for this position was Hewlett-Packard Enterprise for the first year of this position before I became a direct Kingfisher employee**
- Launched a Drupal website called the Accessibility Requirements Tool (ART) and was the lead developer and client liaison for the project from conception to launch. This tool required regular weekly client meetings for feedback and requirements gathering/fine-tuning, custom Drupal modules, and deep knowledge on Section 508, which I taught myself
- Migrated Windows Server 2008 machines to Windows Server 2016 for ART, [idmanagement.gov](https://www.idmanagement.gov), and [section508.gov](https://www.section508.gov) without issue.
- Headed a complete redesign for [idmanagement.gov](https://www.idmanagement.gov), which involved teaching other team members how to use HTML and CSS to assist with the hundreds of pages that needed to be redesigned
- Created a custom Wordpress plugin for [idmanagement.gov](https://www.idmanagement.gov) to convert static HTML tables into sortable, searchable tables, using the FacetWP plugin and JavaScript library to create custom filters that clients can easily modify. This allowed even non-technical users to easily implement more dynamic and feature-filled tables without coding knowledge.
- Demonstrated leadership capabilities by being the main client POC and lead developer for both ART and [idmanagement.gov](https://www.idmanagement.gov) – I successfully led a development team from conception to deployment on both sites.