

Adrian Velez Villanueva

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SKILLS

Languages & Frameworks: Java, Spring Boot, Go, JavaScript (ES6+), React, C++, C#, Python, Vue

Backend & Database: REST, SQL, SparQL, MongoDB, Trino, Ontop, Microservices, Prometheus

DevOps & Observability: Git, Docker, Kubernetes, Helm, GCP, ELK Stack (Elasticsearch, Logstash, Kibana)

Frontend & Web: HTML5, CSS3, React, Vue, Postman, Webpack, Vite, Prettier

EXPERIENCE

Full-Stack Software Engineer

Aug. 2024 – Present

Charlotte, NC

Lowe's Companies Inc.

Signify – Spring Boot Microservices for AI Security and Semantic Use Cases

- Initiated API standardization to streamline business logic, clarify MVC roles, and improve error handling.
- Added exponential back-off timers and improved React session management through Hooks.
- Optimized TTL, R2RML, and SparQL data conversion models, improving ontology generation time by 50%.
- Built Mockito/JUnit test suites, reducing redeployment and regressions throughout team by 75%.
- Improved exception handling through Spring best practices, improving UX/DX for high-visibility application.

Telemetry – Observability Platform, Go Applications, & DevOps

- Implemented quality gates, testing suites, and observability for Logging Frontdoor and ES-Guard Go services.
- Expanded the APIs and introduced OpenAPI specs and Swagger UI into the LFD and ESG deployments.
- Managed operations and updates to enterprise K8s ELK stack across GCP, On-Prem, and Stores clusters.
- Led the EST side of platform migration, deploying changes while maintaining seamless end-user experience.
- Provided on-call support and monitoring, ensuring reliable Telemetry platform operations.

Software Engineer / Consultant

June 2023 – July 2024

Baton Rouge, LA

FAST Enterprises LLC

Frontend - C# / VB.NET Application, Third-Party Processing

- Developed 12 high-visibility feature implementations to user interfaces and third parties through C#.
- Implemented new 2024 Tax Season returns model, optimizing revenue flow and accounting processes.
- Led legacy VB.NET to C# code conversion, modernizing systems and improving performance by 40%.

Revenue Accounting - C# / MS SQL Server Application

- Corrected legacy code, fixing reporting and funding allocations totaling \$27M.
- Monitored and troubleshoot monolithic application availability supporting 4M taxpayers statewide.
- Mentored and onboarded two interns, guiding C# development and best practices.
- Optimized complex SQL logic in MS SQL Server to support updated revenue models.

EDUCATION

University of Florida

Gainesville, FL

Bachelor's in Music Composition, Minor in Computer Science (Magna Cum Laude)

Aug. 2019 – May 2023

eCornell University

Certificate in System Design

Oct. 2025 – Present

PROJECTS

Website Development

- Built websites with HTML, CSS, JavaScript, and React, including experimental work on Neocities.org.
- Assisted with peers' website creation and maintenance, including the Belli cafe in Baton Rouge, LA.

IT & Linux Deployment

- Migrated educational laptops from ChromeOS to Linux for students in Charlotte, NC.
- Modernized workflow and extended device life, cutting replacement costs by 80%.
- Configured local network infrastructure for staff and volunteers.

OpenStreetMap GPS

- Developed GPS app integrating OpenStreetMap and Bridges API to generate 100-mile radius maps.
- Led frontend design, creating an intuitive interface for map boundaries and coordinates.