Fernando Maceda Silva

Software Engineer | Full Stack Developer
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Professional Summary

Results-driven Full Stack Software Engineer with 5+ years of experience designing and implementing scalable, cloud-ready solutions. Adept at using JavaScript, C#, .NET, and React to build high-performance applications. Strong background in microservices architecture, domain-driven design, and automated testing. Passionate about continuous improvement, optimizing software performance, and driving technical excellence in agile environments.

Technical Skills

- **Languages & Frameworks:** JavaScript (React.js, Angular, AngularJS), TypeScript, C# (.NET Core), SQL
- **Databases:** PostgreSQL, MySQL, SQL Server, CosmosDB, MongoDB
- **Cloud & DevOps:** Azure (Functions, DevOps, CI/CD Pipelines), AWS (EC2, Lambda), Docker, GitHub Actions
- **Architecture & Practices:** Microservices, Clean Architecture, DDD, SOLID Principles, Agile

Professional Experience

Full Stack Developer
DMSi (outsourced via Jalasoft), Bolivia — 2020 to present

- **Tech Stack:** JavaScript (Vanilla, AngularJS), Java, Infinite Blue platform, MySQL.
- **Industry:** Building Materials industry.
- Designed and developed server-side and client-side **functions** to customize an application based on **Infinite Blue platform** by using **Vanilla JavaScript**.
- Led the restructuring of the development process by using best practices and structuring the project, reducing rework by 50%.
- Designed and maintained web application using **AngularJS** using MVC architecture.
- Led development of **Google and Outlook integration** modules, enhancing email traffic automation and calendar synchronization. Improved system efficiency, reducing data synchronization latency by 25%.
- Automated permissions management process, reducing the release time by 80%.
- Integrated **Java** libraries working alongside **JavaScript** functions to solve tricky problems, combining Object-Oriented and functional paradigms.

Full Stack Developer (Part-time)
Jalasoft, Bolivia — 2024 to present

- **Tech Stack:** JavaScript (ReactJS), C# (.NET Core), SQL Server, Cosmos DB, Azure Cloud, Docker.
- **Industry:** Education industry.
- Developed and optimized **microservices with C# (.NET Core)**, improving API response time by 25% and enabling scalable cloud deployment on **Azure**.
- Designed and developed web applications using **ReactJS**, enhancing performance and reducing loading time by 50%.
- Designed and maintained scalable **REST APIs** integrated with **SQL Server** and **Cosmos DB.**
- Led the restructuring of the development process to include best practices, reducing rework by 80%.
- Collaborated with defining the migration process from own servers to **Azure Cloud**, considering scalability, performance, and reducing costs by 20%.
- Collaborated with customers support when needed.
- Collaborated with the release process.
- Worked in **agile cross-functional teams**, leading sprint planning and backlog grooming. Increased development efficiency, delivering features 20% faster per sprint.

Full Stack Developer
Jalasoft, Bolivia — 2019 to 2020

- **Tech Stack:** JavaScript (ReactJS), C# (.NET Core), PostgreSQL, MongoDB, Google Cloud, Docker.
- **Industry:** Education industry.
- Led development of **ReactJS** applications using component-based architecture, enhancing maintainability and reducing rework by 40%.
- Designed and developed **microservices using C# (.NET Core)** and **NodeJS**, implementing Domain-Driven Design and SOLID principles.
- Built and maintained scalable REST APIs integrated with **PostgreSQL** and **MongoDB**.
- Managed deployment and scalability of microservices on **Google Cloud**, optimizing resource allocation and reducing downtime by 20%.
- Designed and implemented the project infrastructure using **Docker Swarm** to allow deployment into multiple environments.
- Created **CI/CD pipelines** and **automated testing suites** to ensure deployment safety and quality.

Full Stack Developer
Manheim (outsourced via Mojix), Bolivia — 2017 to 2019

- **Tech Stack:** JavaScript (Angular), Java, Python, Oracle PL/SQL, AWS.
- **Industry:** Vehicle Auction industry.
- Developed **Angular-based web applications** from scratch (new module), having the opportunity to learn about team best practices and define some non-defined ones.
- Designed and implemented **Python-based microservices** following Domain-Driven Design (DDD), improving scalability and performance.
- Designed and maintained scalable REST APIs using **AWS Lambda** integrated with **DynamoDB**.
- Designed and maintained store procedures in **Oracle PL/SQL**.

- Managed deployment and scalability of microservices on AWS, mainly using **EC2** instances and **Lambda** functions.
- Created CI/CD pipelines and automated testing suites to ensure deployment safety and quality.

Education

- Diploma in **Teaching for Higher Education**, Bolivian Catholic University "San Pablo" (2022). Developed expertise in mentoring junior developers, technical documentation, and delivering software engineering workshops.
- Bachelor's Degree in **Systems Engineering**, Bolivian Catholic University "San Pablo", Bolivia (2017). Specialized in software development, database management, and cloud computing. Completed advanced coursework in microservices architecture, cloud solutions (Azure & AWS), and system optimization."

Projects

Personal portfolio (Personal Project)

- Designed and developed a personal portfolio to showcase skills, experiences, and technical blog posts. Implemented Hugo framework with the Toha theme. Integrated SEO best practices, increasing portfolio visibility by 40% on search engines.

Infinite Blue Snippets for VS Code (Side Project)

- Developed a custom VS Code extension to enhance developer productivity by enabling auto-completion for Infinite Blue platform methods. Configured the project using JavaScript and JSON, improving code efficiency and reducing manual typing errors by 50% for developers working with Infinite Blue APIs.

Languages

- Spanish: Native
- English: Professional Proficiency (B2-C1)
- Italian: Basic (studying)