

ATILIO JOSE VILLALBA GIUBI

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PROFILE

I'm Atilio Villalba, a software engineer with over 6 years of experience building secure, scalable systems across fintech, automation, and CRM. I focus on backend development with Java, Node.js, and C#, but I also enjoy working with React on the frontend. I lead projects at fintech.works, solving real-world problems with clean, reliable code. I'm always curious to explore new technologies and take on fresh challenges. Outside of work, I collect vinyl records, enjoy live music, travel often, and experiment with game development.

EDUCATION

Universidad Católica Nuestra Señora de la Asunción
Computer Science Engineer

Asunción, Paraguay
2013 – 2019

EXPERIENCE

Full-Stack Engineer & Architect

Jun. 2024 – Present

fintech.works

Hybrid – Asunción, Paraguay

- Integrated **Azure AD** with **Amazon Cognito** for enterprise SSO and RBAC across a **React - TypeScript** admin portal.
- Built dynamic table views and KPI dashboards with filters in **React - Typescript**, **Ant Design**, powered by **DynamoDB** and **MySQL**.
- Built a **Java - Spring** service for OTP generation and validation, including encrypted storage, TTL-based expiration, and automated cleanup.
- Developed a scalable backend to handle large datasets in **OpenSearch** using advanced filters, search-after pagination using **Java - Spring**. Enabled PDF and CSV export with minimal system load.
- Designed an audit logging system via filters to capture and store user actions in **Java - Spring**. Integrated session tracking, action whitelisting, and a searchable UI to trace activity across services in **React - Typescript**.
- Presented implemented solutions on-site to client executives, receiving strong feedback and helping drive future roadmap discussions.
- Lead weekly client meetings, deliver time estimates, technical documentation, and detailed progress reports.

Back-End Engineer

Sep. 2021 – Jun. 2024

Wind River

Remote – United States

- Developed and maintained backend services using **Node.js**, **Express**, and **TypeScript**. Incoming API requests were routed through a gateway and dispatched to microservices using **Apache Kafka** for asynchronous, scalable communication.
- Designed and maintained a factory-based data access layer capable of handling diverse sources: **SQL** and **NoSQL** databases and third-party APIs. Sources are abstracted via individual mappings for flexibility and consistency.
- Wrote unit tests using **Mocha**, **Chai**, and **Sinon** to ensure 80% test coverage. Focused on maintainable, well-documented code aligned with team standards.
- Collaborated in Agile SCRUM; shipped features from concept to production in two-week sprints.
- Contributed to internal docs and onboarding materials to support new team members and maintain institutional knowledge.

Full-Stack Engineer

Mar. 2020 – Aug. 2021

Microtech SA

Hybrid – Asunción, Paraguay

- Designed and implemented a high-availability synchronization module using **Node.js**, **RabbitMQ**, and **PM2** to transfer and reconcile data between two independent CRM systems.
- Built multiple RESTful web services with Express.js, hosted on Windows-based servers, and secured them via a custom API Gateway.
- Developed **JavaScript** customizations for **Microsoft Dynamics 365** to extend business functionality and improve UX.

COURSES AND CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Udemy: Understanding Typescript

EF Standard English Test: EF SET English Certificate

TECHNICAL SKILLS

Languages: Java, TypeScript, C#, Python, SQL
Frontend: React.js, Redux, Hooks, Ant Design, HTML5, CSS3
Backend: Spring Boot, Express.js, AWS Lambda, Kafka, RabbitMQ
Cloud: AWS, Azure, Docker, Kubernetes
Databases: MySQL, PostgreSQL, SQL Server, DynamoDB, MongoDB, OpenSearch
DevOps: Git, Jenkins, CI/CD
Testing: Mocha, Chai, Sinon, JUnit

LANGUAGES

Spanish (Native) English (Advanced) French (Basic)