

ULISES MANUEL VARGAS DE SOUSA

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Senior AI & Full Stack Engineer

PROFESSIONAL SUMMARY

Accomplished Senior AI & Full Stack Engineer with over 10 years of professional experience, specializing in modern architectures (Java 21, Spring Boot 3, Node.js, Angular, React) and Agentic AI workflows. Expert in accelerating software delivery and building highly scalable, resilient cloud systems utilizing LLMs (Claude, Codex), GitHub Copilot, and the Model Context Protocol (MCP). Proven track record of leveraging AI-driven assistance to design high-performance microservices, event-driven architectures, and production-ready enterprise solutions across the entire stack.

TECHNICAL SKILLS

Artificial Intelligence & LLMs: Agentic AI Workflows, Model Context Protocol (MCP), OpenAI Codex, Anthropic Claude, GitHub Copilot, Prompt Engineering, AI-Assisted Development.

Backend & Core: Java (Up to 21), Spring Boot 3, Node.js, Nest.js, C#, .NET (8-10): Minimal API, PHP/Laravel.

Architecture: Microservices, Domain-Driven Design (DDD), CQRS, Hexagonal Architecture, Event-Driven Design, Transactional Outbox Pattern.

Databases & Messaging: PostgreSQL, SQL Server, Apache Kafka, RabbitMQ, Liquibase, Firebase.

Cloud & DevOps: Docker, SonarQube, AWS (EC2, S3, Lambda, Amplify, Cognito), GCP.

Frontend & Mobile: Angular (Signals, NgRx), React (Next.js, Vite, Redux Toolkit, Zustand, Tanstack Query), TypeScript, Tailwind CSS, React Native, NativeScript.

WORK EXPERIENCE

Senior Full Stack & AI Developer

TERRAVISION TECHNOLOGIES LLC

Oct 2021 – Jun 2026

TurboSteps

- Architected and developed scalable backend systems using Nest.js and Node.js, implementing 100% of the project via Agentic AI workflows utilizing OpenAI Codex and Anthropic Claude orchestrated through GitHub Copilot and the Model Context Protocol (MCP).
- Seamlessly integrated Stripe API for secure payment processing and subscription workflows, alongside GoHighLevel for advanced CRM and marketing automation utilities.
- Managed robust relational data structures with PostgreSQL and containerized application components using Docker, vastly accelerating feature delivery through AI-assisted engineering.

Direct Express & One App

- Engineered key features for modern web applications using Angular (Signals, NgRx) and React (Vite, TypeScript, Redux Toolkit, Context API).
- Utilized Reactive Forms, Angular Routing, and Angular Material to build dynamic and responsive interfaces.

- Integrated backend services leveraging AWS Amplify, Cognito, and Lambda.

Mocafi / Angeleno / Abundant Birth

- Built cross-platform mobile applications using the NativeScript framework with Angular 14.

Senior Java Developer

BLACKFIN

Oct 2025 – Mar 2026

- Engineered high-throughput enterprise microservices for Seguros G&T utilizing Java 21 and Spring Boot 3.
- Implemented Domain-Driven Design (DDD) and Hexagonal Architecture principles to build highly decoupled, maintainable, and robust codebases.
- Designed reliable asynchronous communication channels using Apache Kafka and applied the Transactional Outbox Pattern to guarantee eventual consistency across distributed systems.

Full Stack Developer (Freelance / Independent Consultant)

VIDAMED

Jan 2025 – Present

- Maintained and developed features for the legacy medical platform using a Java 8 and Spring framework codebase.
- Optimized relational database schemas in PostgreSQL and SQL Server to streamline data access and improve query efficiency.

Full Stack Developer

TERRAVISION TECHNOLOGIES LLC (Opal, Focalyx, Ambi, Sell Your Classic)

Aug 2019 – Sep 2021

- Developed full-stack web and mobile solutions using React Native, Context API, Node.js/Express, PHP/Laravel, and Firebase Cloud Messaging.
- Deployed serverless applications on AWS infrastructure and created robust mobile applications with MobX state management.

Full Stack Developer (Remote)

DIGEONTECH

2018 – 2019

- Created a public service app for the Municipality of San Juan, Puerto Rico, using React + TypeScript (frontend) and Node.js + TypeScript/Python (backend).

Full Stack Developer (Remote)

ANDO.LA & VESTUA

2018

- Developed hybrid mobile apps with Ionic and Angular.js; refactored legacy backend code to ES6, improving runtime efficiency by 20%.

Web Developer

SETECH C.A. (Vidamed Project)

Jun 2017 – Oct 2017

- Co-developed the initial core of the Vidamed application utilizing a legacy Java 8 and Spring ecosystem.
- Configured enterprise backend structures using Hibernate for ORM handling and Liquibase for database migrations in PostgreSQL.

Full Stack Developer**VIVACE C.A. (Venezuelan Doctors Online)***Apr 2016 – Nov 2016*

- Developed telemedicine platform components utilizing Angular.js on the frontend and APIs with Node.js and Express.js.