

David Juarez Magaña

📍 Jalisco, Mexico |

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PROFESSIONAL SUMMARY

Computer Systems Engineer with expertise in **Full Stack Java development**. Experienced in migrating legacy systems to modern architectures using **Spring Boot 3** and **React**. Proficient in cloud-native practices (**Docker**), database management, and integrating cutting-edge technologies like **OpenAI models** into enterprise applications. Committed to delivering secure, efficient, and user-centric software solutions.

EDUCATION

Instituto Tecnológico de Ciudad Guzmán

Bachelor in Computer Systems Engineering (Spec. Applied AI)

2020 – 2025

Jalisco, Mexico

TECHNICAL SKILLS

Java Ecosystem: Java 21/17, Spring Boot 3, Spring AI, Spring Security (JWT, OAuth2), JPA, Hibernate.

Frontend: React, Vite, Tailwind CSS, HTML5, CSS3, JavaScript (ES6+).

Data & AI: Generative AI (OpenAI API), Data Structures, Algorithms, MySQL, SQL Server, MongoDB.

DevOps & Tools: Docker, Git, GitHub Actions, AWS (ECS, RDS), Postman, Jira, Agile/Scrum.

EXPERIENCE

Tata Consultancy Services

Java Backend Developer

Feb 2025 – July 2025

Guadalajara, Mexico

- Joined as an **IT Trainee**, receiving comprehensive mentorship and specialized training in **Java** and **Spring Boot** for enterprise backend development.
- Applied acquired knowledge to develop and maintain microservices, designing RESTful APIs under senior guidance.
- Collaborated in an **Agile (Scrum)** environment using **Jira** and managed version control with **Git**.

PROJECTS

Psyche-Scheduler | Java 21, Spring Boot 3, React, MySQL

Present

- Architected a full-stack telemedicine platform enabling patients to schedule online consultations with professionals.
- Secured RESTful APIs with **Spring Security** and **JWT** to enforce Role-Based Access Control (RBAC).
- Containerized the database infrastructure using **Docker Compose** to ensure consistent rapid deployment.

Digital Creative Lab | Java 21, Spring Boot 3, React, MySQL

July 2025

- Architected a comprehensive educational platform using a robust Java architecture.
- Designed a relational database schema in **MySQL** utilizing **Spring Data JPA** to manage user progress and integrity.
- Integrated a dynamic **React** frontend (Vite, Tailwind) with the backend, optimizing interaction with Framer Motion.

SprintAI - GenAI Platform | Java 17, Spring Boot 3, Spring AI

Dec 2024

- Developed a Generative AI platform integrating **OpenAI's GPT-3.5** and **DALL-E 2** via Spring AI.
- Engineered a prompt-driven backend, creating services for chat, image generation, and structured recipe creation.
- Built an interactive React frontend to consume AI endpoints, featuring real-time chat and dynamic forms.

CLI Strategy Game Engine | Java SE, Git, Algorithms

2023

- Developed an interactive console-based "Snakes and Ladders" simulation applying OOP principles.
- Engineered custom data structures from scratch (BST, Linked Lists) and implemented **QuickSort** for rankings.