

Luis Antonio Dardón Álvarez

Software Engineer | Backend Developer (Java & Python)

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Education

Universidad Autónoma de Chiapas (UNACH)

BS in Software Engineering

Tapachula, Mexico

Jan 2023 – July 2027

- Ranked **#1 in Class** for 7 consecutive semesters (GPA: 9.43 / 10.00)
- **Apple Swift Student Challenge 2026 Winner** for building PathFinder algorithm visualizer
- 2x Winner of Local Swift Hackathons; National Finalist
- Academic Mentor: Led programming workshops for incoming engineering students

Experience

Backend Software Engineer

Trimintana

Tapachula, Mexico

Apr 2026 – Sept 2026

- Architected and built initial backend microservices for an industrial crusher ERP application
- Defined core requirements, tech stack, data models, and software architecture
- Developed an Automatic License Plate Recognition (ANPR/LPR) vehicle tracking module

Database Engineer Intern

UNACH Software Engineering Dept.

Tapachula, Mexico

Jan 2025 – June 2025

- Developed high-performance PostgreSQL stored procedures, triggers, and complex functions
- Optimized enterprise relational schemas and indexing strategies for heavy query workloads
- Automated data processing routines and ensured database security and integrity

Projects

EcoTap

Environmental waste management platform with real-time reporting and geospatial visualization

- Engineered Spring Boot RESTful API backend handling report management and analytics
- Developed web dashboard using TypeScript, HTML5, and Tailwind CSS; built iOS app in Swift

PathFinder

Interactive search algorithm visualizer app awarded by Apple

- Awarded **Apple Swift Student Challenge 2026 Winner**
- Designed graph search algorithm visualizer (BFS, DFS, Dijkstra, A*) for computer science education

Skills

Languages: Java, Python, C, Rust, SQL, TypeScript, JavaScript, Swift

Backend & Databases: Spring Boot, FastAPI, PostgreSQL (Stored Procedures), MongoDB, SQLite, REST APIs, Microservices

DevOps & Cloud: Docker, Git, GitHub Actions (CI/CD), Cloud Computing (Carlos Slim), Linux

Data Science: NumPy, Pandas, SciKit-Learn, Matplotlib

Web & Frontend: Svelte, TypeScript, HTML5, CSS3, Tailwind CSS, React

Spoken Languages: English (C1 Advanced), Spanish (Native), Italian (Beginner)

Certifications

- **CS50P: Intro to Programming with Python** – Harvard | **Data Science Essentials** – Cisco
- **MongoDB Certified Associate Developer & MongoDB Certified Database Administrator**
- **JavaScript Essentials 1** – Cisco | **Cloud Computing Technician** – Fundación Carlos Slim