

Juan Pablo Kuri Ricárdez

Software Engineering Intern • 4th-year student, Universidad Veracruzana

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SUMMARY

Software Engineering student, 7th of 9 semesters. Building end to end, on my own, the class scheduling system for my faculty's academic coordination office: authentication, seven catalogs, and schedule generation for two roles, in Java, Spring Boot, and PostgreSQL. Open to internships in Orizaba, nearby, or remote. My formal degree-required internship starts August 2027.

SELECTED PROJECTS

Sistema de Gestión de Horarios Académicos

Feb 2026 – present

Extracurricular, sole developer. Client: Coordinación Académica, Software Engineering program

- Interviewed the academic coordinator to elicit pain points around manual schedule assignment and translated them into an SRS with use cases.
- Designed the relational data model and documented the architecture with the C4 model, using PlantUML and draw.io.
- Backend in Java with Spring Boot and PostgreSQL, database migrations with Flyway, and JWT authentication. Frontend in React and Vite.
- Running locally end to end: authentication, seven catalogs (academic terms, majors, curricula, courses, professors, groups, and users), and schedule generation. Admin role covers full catalog management; academic coordinator role has scoped catalog access and drives schedule generation. Validated with the client every iteration.

DUOLAB, clinical laboratory website and patient results portal

2026

Extracurricular, for a clinical analysis laboratory

- Ran discovery with the lab's operations leads and defined the scope of a patient-facing results portal.
- Built and deployed the public site with Astro on Cloudflare Pages.
- Narrowed the delivery to the public site and put the results portal on hold until the legal framework for handling clinical data was resolved.

Dental clinic appointment management system

2026

Taller de Prueba de Software (Software Testing Workshop), team of five

- Ran discovery interviews with three dentists and the manager of a four-office clinic to map the scheduling process and its actors.
- Framed the problem, scoped the MVP, and drafted user stories around three prioritized pain points: no-shows, overbooked and inefficient administration, and lack of post-treatment follow-up.
- Author the vision and scope document and the work breakdown structure; review the use cases and mockups produced by the team.

OTHER PROJECTS

Real-time employee tracking system (academic, team, 2025). Designed the ER and relational models, built the REST API with NestJS, TypeScript, and PostgreSQL, and authored the technical and architectural documentation.

ATM simulator with LAN support chat (academic, team, 2025). Implemented client-server communication over TCP sockets in Java and concurrent connection handling.

Text and clinical screening classifiers (academic, 2025, Python and scikit-learn). Spam classifier comparing Naive Bayes, logistic regression, Linear SVC, and Random Forest. AQ-10 screening classifier where I prioritized recall over precision given the clinical cost of a false negative, with class balancing and threshold tuning.

User manuals for a diabetes monitoring system (2026). Wrote two audience-specific manuals, one for patients on the mobile app and one for physicians on the web platform, reviewed with project stakeholders.

SKILLS

Analysis and requirements: stakeholder interviews, requirements elicitation, SRS, use cases, user stories, scope definition.

Backend: Java (Spring Boot), TypeScript (NestJS), REST APIs, JWT.

Databases: PostgreSQL, SQL, ER and relational modeling, migrations with Flyway.

Architecture and modeling: C4 model, PlantUML, draw.io.

Tooling: Git and GitHub, Linux, Cloudflare Pages.

Working knowledge: Python with scikit-learn, Astro, React and Vite.

EDUCATION

B.Eng. in Software Engineering, Universidad Veracruzana

Aug 2023 – Dec 2027

Facultad de Negocios y Tecnologías, Ixtaczoquitlán campus, Veracruz, Mexico. 7th of 9 semesters, GPA 9.2/10. Mandatory community service (servicio social) in progress; degree-required internship starts August 2027.

CERTIFICATIONS AND LANGUAGES

Technical: Código Facilito • Professional Docker Course, Intro to DevOps, Software Development Lifecycle. Kaggle (2025) • Introduction to Python, Introduction to Machine Learning. Cisco Networking Academy (2025) • Endpoint Security, Digital Safety and Security Awareness.

Cross-functional: IE University • Customer Centricity and Customer Experience. Santander Open Academy • Strategic Thinking & Strategic Mindset.

Languages: Spanish, native. English: fluent technical reading and writing; functional spoken.