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Professional Summary

Information Systems Engineering student at Universidad Nacional de Costa Rica, currently in my seventh semester (6 of 8 completed). I build full-stack web applications, mobile apps, and machine learning solutions. Recent highlights include UNAColabora, a production-deployed academic collaboration platform (Next.js, PostgreSQL, Docker), and JCraft, an educational programming language with a complete compiler pipeline, validated through user research with children. My focus is full-stack web development, mobile with React Native, and applied AI/ML.

Experience

- 2026 – Present 📌 **AI Data Labeler & Aligner (Freelance).** Part-time AI data labeling for Aligner, evaluating code responses to improve AI system reliability using expert software engineering judgment without AI assistance.
- 2026 – Present 📌 **Full-Stack Developer – Centro de Escritura, UNA Sede Brunca.** Built an institutional academic management platform. Modernized the full stack (Node.js + Express + React + MariaDB), dockerized the application, and led server migration from AWS Lightsail to on-premise university infrastructure.
- 2026 – Present 📌 **Full-Stack Developer – SICS Security Compliance Platform.** Compliance web platform that gives Costa Rican businesses a structured way to evaluate their security posture against 6 international standards (ISO 27001, NIST CSF) and national law – making a process previously requiring expensive consultants accessible and guided. Built end-to-end with FastAPI, PostgreSQL, React/TypeScript, and Google OAuth in collaboration with the Vice-Dean of Universidad Nacional de Costa Rica.
- 2023 📌 **Calculus Tutor – Universidad Nacional, Costa Rica.** Academic tutoring in calculus for first-year engineering students, improving comprehension and academic performance.

Education

- 2025 📌 **Diploma in Application Programming,** Universidad Nacional, Costa Rica.
- 2023 – Present 📌 **Bachelor's in Information Systems Engineering (Expected Graduation: 2026),** Universidad Nacional, Costa Rica.

Projects

UNAColabora – Academic Collaboration Platform

<https://colabora.unasrb.org>

- Production-deployed platform connecting UNA, companies, and the university community to manage collaborations, applications, reviews, and notifications with role-based access control (RBAC).
- Tech stack: Next.js (App Router), TypeScript, PostgreSQL, Prisma, NextAuth.js, Zustand, Tailwind CSS, Shadcn UI, Zod, Docker.

JCraft – Minecraft-Themed Educational Programming Language

<https://github.com/JoshuaEA54/JCraft>

- Educational language with Spanish keywords inspired by Minecraft, designed to make programming accessible to children.
- Full pipeline: lexer, parser, type checker, interpreter, and an integrated IDE with syntax highlighting.
- Validated through academic research sessions and interviews with children.
- Tech stack: Python, PySide6.

EduIA – AI-Powered Learning Platform

<https://eduia.up.railway.app/>

- Reduced quiz-creation time by ~90% using OpenAI API; real-time sessions via WebSockets.
- Tech stack: Next.js, TypeScript, Prisma, Zustand, OAuth, Zod, Tailwind CSS, Shadcn UI, Sanity CMS.

Technical Skills

Languages	JavaScript, TypeScript, Python, SQL
Web & Mobile	Next.js, React, React Native (Expo), HTML5, CSS3, Tailwind CSS, Bootstrap
Backend & APIs	Node.js, FastAPI, REST APIs, OAuth
AI / Machine Learning	TensorFlow, scikit-learn
ORM / BaaS	Prisma, Firebase, Supabase
Databases	PostgreSQL, MySQL, MongoDB, OracleDB
Tools & DevOps	Git, Docker, Vercel, Swagger, JWT, Zod, Figma

Soft Skills

- Fast learning, teamwork, problem-solving, communication, adaptability, critical thinking, creativity, time management, leadership, empathy

Certifications

- 2025  Cisco – Operating Systems Basics Certification
- 2022  High School Diploma – Liceo Fernando Volio Jiménez, Costa Rica
- 2021  CI-UNA English Certificate (B2 level)

Languages

-  Spanish (Native), English (B2 – Upper-Intermediate, certified by CI-UNA & US Embassy's Access Microscholarship Program)