

ALEJANDRO ARIAS ROJAS

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PROFESSIONAL SUMMARY

Business Informatics student at Universidad de Costa Rica with experience designing and deploying real-world business software solutions. Built enterprise applications including a jewelry management and POS platform, a SaaS appointment management system and a TCP/IP remote administration solution. Experienced in backend development, database design, cloud deployment and business process automation using Java, Python, Django, React and AWS. Expected Graduation: 2027

EDUCATION

Universidad de Costa Rica (UCR)

Bachelor's degree in business informatics (2024 – 2027)

CORE COMPETENCIES

Problem Solving • Team Collaboration • Business Process Analysis • Software Design • Technical Communication

TECHNICAL SKILLS

Programming: Java, Python, JavaScript, TypeScript

Backend: Spring Boot, Django, Node.js, Express

Frontend: React, Next.js

Databases: SQL Server, PostgreSQL, MySQL

Cloud & Infrastructure: AWS, Azure, Docker, Linux, Nginx

PROFESSIONAL EXPERIENCE

Independent Software Developer | 2025 – Present

Jewelry Management & POS Platform

- Designed and deployed a production-oriented business platform supporting real operational workflows in a retail environment.
- Centralized inventory management, sales processing, customer accounts, reporting and online orders within a single enterprise application.
- Built backend services and database architecture supporting day-to-day business operations.
- Implemented cloud-based infrastructure and storage services using AWS and Supabase.
- Delivered a software solution addressing real business requirements rather than academic use cases.

Beauty Salon Appointment Management Platform

- Developed a SaaS-oriented platform centralizing appointments, customer records, services and staff calendars.
- Implemented REST APIs and backend services using Django REST Framework.
- Designed role-based access control for administrators, receptionists and service providers.
- Automated reminder workflows using Redis and Celery.
- Applied scalable software architecture and database design principles.

TCP/IP Remote Management System

- Developed a client-server application using TCP/IP socket communication.
- Implemented concurrent processing using multithreading techniques.
- Built remote monitoring, messaging and system administration capabilities.
- Applied networking, systems programming and distributed architecture concepts.

LANGUAGES

Spanish (Native) | English (B2)