

Leiner Alvarado Rodriguez

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in Leiner Alvarado 🌐 Leiner117 🌐 leinalvarado.dev

Final-year Computer Engineering student at the Costa Rica Institute of Technology, with hands-on experience in full-stack web development and Unity-based projects. Motivated to apply my technical and collaborative skills in a professional setting through an internship opportunity.

Education

Costa Rica Institute of Technology

Feb 2022 – Present

B.Sc. in Computer Engineering

- **Relevant Courses:** Web Development, Data Analysis, Software Design, Project Management, Artificial Intelligence.

Experience

Fullstack Developer

San Carlos, Alajuela

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Apr 2025 – Present

- Developed a responsive tourism website using Next.js, TypeScript, and Firebase, focused on SEO and performance optimization.
- Conducted code reviews and incorporated feedback from peers and the CTO to enhance development quality.
- Implemented Firebase Cloud Functions for reservation handling and scheduled tasks, optimizing Firestore queries to reduce client costs.
- Contributed to a SaaS platform for medical clinics, maintaining the same standards and best practices.
- Integrated payment gateways (PayPal and BAC), ensuring secure data handling and compliance with best practices.
- Worked under the Scrum agile methodology, using Jira for task management and sprint tracking.

Unity Developer

San Carlos, Alajuela

Costa Rica Institute of Technology

Feb 2024 – Present

- Collaborated with a multidisciplinary team of 7 members to develop a metaverse for the university.
- Participated in weekly meetings to coordinate progress, assign tasks, and solve technical challenges.
- Created C# scripts for spatial audio control, player movement, and server synchronization.
- Configured multiplayer functionality using Unity Game Services, enabling real-time interaction between users.

Projects

Mini-Python – Compiler and Virtual Machine

[GitHub: Mini-Python](#) 🔗

- Educational project implementing a compiler + VM for a subset of Python, covering lexical, syntactic, semantic analysis, bytecode generation, and execution.
- Includes a Windows Forms GUI and a stack-oriented virtual machine supporting functions, lists, flow control, and dynamic typing.

NeuroLens – Image and Audio Processing by AI

[GitHub: Image-Audio-Processing-AI](#) 🔗

- Web application combining real-time audio transcription and object detection in images using AI models.
- Frontend built with React + Vite, backend with FastAPI, and independent services for audio and image processing.
- Responsive design with animations, custom typography, and modular architecture for scalability.

DanceManager – Management System for Dance Academy

GitHub: [DanceManager](#) 

- Platform for managing students, groups, attendance, payments, and reports in a dance academy.
- Role-based access (owners, secretaries, instructors), automatic receipt generation, and filterable reports.
- Integrated Firebase backend and email system; built with Next.js + React.

Additional Skills

Programming Languages: Python, Java, TypeScript, C#, SQL

Technologies: Unity, React, Next.js, Firebase

Languages: Spanish (native), English (basic)