

# Emerson Adonay Díaz Duarte

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## Education

### Bachelor's Degree en **Universidad Técnica Nacional** Information Technology Engineering

Alajuela, Costa Rica  
Ene 2023 – presente

Expected graduation: 2026. Associate Degree completed in July 2025.

- Relevant coursework: Data Structures, Algorithms, Cloud Computing (AWS concepts), Backend Development, and Information Security.
- Hands-on experience building REST APIs with Node.js and designing relational SQL schemas.

## Experience

### **NaturAloe**, Student Team Lead & Backend Developer (Academia-Industry Project)

Liberia, Guanacaste, Costa Rica  
May 2025 – Sept 2025

- Led a student team to build a corporate intranet from scratch, currently used by 10 employees for daily operations.
- Architected the backend using Node.js/Express and SQL, ensuring data integrity and efficient data retrieval.
- Coordinated development sprints and API integrations, delivering a functional product to company stakeholders.

### **Costa Rican Social Security Fund (CCSS)**, Student Team Lead & Frontend Developer (Integrative Project I)

Upala, Guanacaste, Costa Rica  
May 2024 – Sept 2024

- Led the development of a healthcare management module aligned with real medical workflows.
- Managed team tasks and implemented responsive UI components, improving usability for healthcare staff.

## Projects

### **Regulatory Compliance Evaluation System (Backend)**

Costa Rica  
Ago 2025 – Oct 2025

API for managing and automating employee evaluation forms.

- Designed and modeled the complete database, ensuring a scalable structure for labor regulation compliance.
- Developed the entire backend API, including business logic and security integration.
- Implemented a reporting engine to convert JSON data into PDF documents, accurately replicating pre-existing Excel form layouts.
- Documented the API thoroughly using Swagger to facilitate integration and long-term maintenance.

### **TutoFlex**

Cañas, Guanacaste, Costa Rica  
Ene 2025 – May 2025

Full-stack educational platform connecting students for peer tutoring.

- Developed a scalable platform connecting over 30 university students across multiple countries.
- Built the mobile frontend using React Native and contributed to backend architecture in Node.js.
- Project selected for international presentation at AMI TIC 2025 (Neiva, Colombia) due to its technical impact.

## Skills

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**Programming Languages:** Java (Core / Basic-Intermediate), JavaScript, TypeScript; Basic: Python, C#, Go

**Backend & Databases:** Node.js, Express, NestJS, REST APIs, JWT, MySQL, PostgreSQL. Basic: Oracle, MongoDB

**Frontend & Tools:** React Native, HTML/CSS, Tailwind, Git/GitHub, Docker, Postman, Linux environments

**Leadership & Soft Skills:** Team Leadership (Agile/Scrum), Requirements Gathering, Effective Communication, English (Intermediate – B1)