

FABRICIO ALVARADO ALVARADO

SOFTWARE ENGINEER

CONTACT

+506 8452 7729

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<https://www.linkedin.com/in/f-alvarado/>

Costa Rica

SKILLS

Frontend: React, JavaScript (JS), TypeScript (TS), HTML, CSS, Material-UI.

Backend: Node.js, Python (Flask, FastAPI), REST API.

Mobile development: React native, Android Studio, Kotlin.

Databases: SQL Server, PostgreSQL, Firebase.

Automated Tests: Jasmine, Karma, Cypress.

Google Cloud: Firebase, Google Drive API, Google Gmail API.

Teamwork, leadership, work under pressure, proactive.

EDUCATION

Bachelor's degree in Computer Engineering Technological Institute of Costa Rica

February 2021 - June 2025

Honor scholar for maintaining an outstanding GPA throughout the entire degree program.

Throughout my studies, I dedicated myself to making the most of every academic project, using them as opportunities to test and expand my knowledge. I approached each project with the mindset that it had a real-world application and a potential client, which drove me to strive for the highest quality and to add additional features that made the solutions more robust and appealing.

PROFILE

Final-year Computer Engineering student with a strong background in software development and a focus on creating innovative solutions. Experienced in academic and personal projects using technologies such as JavaScript, React, Node.js, and Python. Skilled in requirements analysis, system design, and the development of websites and mobile applications. Proficient in both independent and collaborative work, always oriented towards quality and efficiency.

I am a creative individual, passionate about solving complex problems through software development. I enjoy engaging with clients and users to understand their needs and ensure effective solutions. I excel in project formulation and maintain constant and assertive communication with both the team and clients, ensuring project success and delivering solutions that truly make a difference.

PROFESSIONAL EXPERIENCE

Web Development Research Assistant Student

GISII Research Group of the Technological
Institute of Costa Rica

February 2023 - Present

- Designed the application, gathering requirements from the professors in charge of attendance. Developed wireframes and mockups to define the design and scope of the project based on available resources.
- Trained both through self-study and under the guidance of an advanced student on the team to meet the project's requirements and effectively use the chosen technologies.
- Developed interactive and user-friendly interfaces using frontend technologies such as React, TypeScript, HTML, CSS, and component frameworks like Material UI.
- Implemented the web application's backend according to client needs, designed the database, and developed the necessary protocols using tools and technologies such as SQL, JavaScript, Node.js, PostgreSQL, and JWT.
- Led a team of developers, composed of other students, during various project phases, while also working under the supervision of advanced students and professors. Throughout this period, I honed my skills in effective and consistent communication with team members, clients, users, and stakeholders.

Software Quality Assurance Assistant Student

Special Assistance at Technological
Institute of Costa Rica

August 2024 - Present

- Conduct detailed code reviews of existing mobile applications to ensure quality and consistency, identifying and correcting potential issues.
- Analyze and update software dependencies to the latest versions to enhance performance and security, ensuring applications are up-to-date with the latest improvements and security patches.
- Compile and test applications on various mobile devices to ensure proper functionality and compatibility across different platforms and screen resolutions.
- Prepare applications for production release, ensuring stability and optimal performance, and oversee the process to ensure a smooth transition to production.

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Costa Rica

LANGUAGES

Spanish (Native)

English (Intermediate level)

REFERENCES

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WORK EXPERIENCE

Application Development Assistant Student

Davinci Research Group of the National Open and Distance University, Pasto campus, Colombia

November 20 - December 8, 2023

- Designed and developed a server-type application intended to be installed on a Raspberry Pi, functioning as a web server. The application was hosted via NGROK and established a connection between the web server and a webcam on the same network.
- Enabled the application to make requests to the web server to retrieve real-time images from the webcam. These images were automatically uploaded to a Google Drive account and stored in a specific folder, creating a dataset for training artificial intelligence models for facial recognition and emotion detection.
- Maintained constant communication with university professors, who were the clients and project leads. This interaction was essential to ensure that the application development met their requirements and expectations.
- Documented the entire development process through user manuals and other documentation, ensuring that the software was user-friendly and understood by the end-users.