



Alejandro Antonio Castillo

Full Stack Developer · Electronic Engineer

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📍 Popayán, Colombia · 🌐 [Alejocas17](#) [Alejandro A. Castillo Gil](#)

Skills

Python



Node



JavaScript



Azure



Docker



NextJS



NestJS



PostgreSql



React



Languages

English



Personal References

- Eng. David Franco,
320 6345448
- MSc. Felipe Palta,
321 6112295

Profile

Electronics Engineer with a robust track record in machine learning and computer vision, specializing in the development of comprehensive vision systems. I've led implementation and management projects, showcasing skills in server management and software procurement. As a full stack developer, I bring experience in Python, Node.js, and various frameworks such as Next, Vue, Nest, FastApi, and Django. My expertise also spans JavaScript, TypeScript, and vanilla JS, alongside deployments on Azure, AWS, and GCP using Docker containers, FTP, as well as static site hosting on IIS. My focus lies in delivering results and crafting innovative solutions.

Work Experience

Freelance Software developer

Nov 2022 - Jan 2023

Independent

Mobile application backend development with nodeJs. Devops tasks with deployment in AWS. PostgreSQL database creation and connection with backend and production deployment.

Freelance Software developer

Dec 2022 - Feb 2023

Independent

Backend development with python and FastApi. Devops tasks with deployment in railway. PostgreSQL database creation and connection with backend and production deployment.

Bachelor's degree thesis

Dec 2022 - Oct 2023

Universidad del Valle

Automatic pavement crack detection system using machine and deep learning techniques (Meritorious mention). Database ETL pipeline development. Software Interface development using Matlab and Python.

Research and innovation assistant

Jan 2022 - Dec 2022

Universidad del Valle

Assistance Master of Science thesis in the computer vision area. Database ETL pipeline development. Software Machine learning pipeline development. Documentation with LaTeX environment.

Software Support Engineer

March 2023 - Currently

Universidad del Cauca - Contractor

Engineer Project leadership in software implementation of Electronic Document and Records Management System. I have served as a client-side support engineer for the EDMS software platform. In this role, I have developed key soft skills related to software management and administration, helping facilitate its implementation and adoption by users.

Work Experience

Full Stack Developer

Feb 2023 - Currently

Teleperformance

Developed and maintained backend services using Python (FastAPI) and Node.js (express and NestJS). Created dynamic and interactive frontends with JavaScript, TypeScript, Three.js, React, Next.js, and Tailwind CSS. Integrated PostgreSQL and SQL Server databases, utilizing both ORM and stored procedures for efficient data management. Containerized applications and managed builds using Docker, deploying to Azure via Docker containers, FTP, and static site hosting on IIS. handled full project life cycles with a focus on client business needs and objectives. Worked across all development stages, from initial concept to deployment and ongoing support.

Education

Electronic Engineering Degree

Feb 2017 - Dec 2022

Universidad del Valle

Grade: 4.4/5.0, Meritorious degree thesis

Software Programming Technician

Feb 2014 - Dec 2016

SENA

Grade: 4.5/5