

ALVARO IZQUIERDO

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Education

Stevens Institute of Technology

Bachelor of Science in Computer Science | GPA: 3.756

Expected May, 2028

Hoboken, NJ

Relevant Coursework

- Computer Architecture and Organization
- Algorithms
- Data Structures
- A.I and Machine Learning
- Data Science and Analytics
- Discrete Structures

Work Experience

Student Office Assistant

September 2024 – Present

Student Job at SIT (University Events)

Hoboken, NJ

- Engage with students, families, and visitors by offering directions, answering questions, and creating a friendly, approachable environment during campus events.
- Support event setup by arranging spaces, preparing materials, and ensuring audio/visual technology functions smoothly for speakers and presenters.

Leadership Experience

Code in Place

April 2025 – May 2025

Section Leader

Stanford - Remote

- Taught weekly computer science classes to 15 international students as a Section Leader, focusing on foundational programming skills.
- Developed and delivered project-based lesson plans covering Python topics such as lists, dictionaries, and AI tools, culminating in a small program each session.
- Led interactive coding sessions using Stanford's Karel platform to reinforce algorithmic thinking and problem-solving through hands-on practice.

Projects

Classify | Java, SpringBoot, TypeScript, Node.js, Supabase, Vercel, AWS EC2, AWS S3

June 2025

- Implemented a scalable full-stack class collaboration platform enabling students to connect and communicate based on shared courses, leveraging cloud architecture and modern web technologies.
- Developed backend services with Spring Boot and Supabase, including user authentication, classroom enrollment, and real-time messaging APIs.
- Built a responsive frontend using Node.js and TypeScript, optimizing user experience and interface design with modern UI best practices.
- Deployed the frontend on Vercel and backend on AWS EC2, utilizing AWS S3 for secure storage of images and media assets.
- Tested and validated RESTful APIs with Postman and DBeaver, ensuring performance, reliability, and maintainability.

Google Calendar Automation Tool | Python, Google Vision API, Pillow, OCR, Image Processing

July 2025

- Developed a Python-based automation tool to extract and process schedules from images, leveraging Google Vision API and Pillow for OCR and image preprocessing.
- Transformed extracted text into structured, Google Calendar-compatible formats, automating event creation and eliminating manual scheduling tasks.
- Demonstrated skills in OCR, API integration, automation, Python programming, and handling structured data pipelines for real-world productivity tools.

Personal Finance Tracker | Python, SQL, PostgreSQL, pandas, streamlit cloud, supabase

June 2025

- Performed ETL on real-world financial data using pandas and PostgreSQL
- Wrote optimized SQL queries for aggregating transaction data
- Utilized Supabase for relational data storage, implemented Python for data preprocessing and analytics, and deployed the dashboard using Streamlit Cloud for interactive visualization and sharing.

Technical Skills

Languages: Python, Java, C++, TypeScript, HTML/CSS, SQL, Bash, DrRacket

Developer Tools: VS Code, IntelliJ IDEA, CLion, DBeaver, Postman, Git, GitHub, Docker, Supabase, Streamlit Cloud

Technologies/Frameworks: SpringBoot, Node.js, PostgreSQL, Pandas, AWS EC2, AWS S3, Vercel, Pillow, OCR