

# Danny Cabrera

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## Professional Summary

Software Engineer with experience in frontend development using Angular and Tailwind, building data-driven interactive interfaces and user management systems, implementing authentication and access control with AWS Cognito, backend logic via Lambda functions, managing storage on S3, deploying web applications on AWS Amplify, and configuring protected endpoints in API Gateway. Interested in further specializing in frontend development, creating scalable solutions integrated with cloud services.

## Education

**Escuela Politécnica Nacional**  
Software Engineer

Quito, Ecuador  
October 2024

**Colegio Militar “Eloy Alfaro”**  
High School Diploma in Sciences

Quito, Ecuador  
July 2015

## Experience

**E&G Estrategia y Gestión**  
**Front-end Developer**

Quito, Ecuador  
July 2024 – Present

- Development of the website **surviz.net** using Angular and D3.js for data visualization.
- Implementation of user authentication via AWS Cognito, supporting both admin and end-user accounts.
- Dynamic generation of cross-tab graphs, weighted averages, and NPS from surveys uploaded by clients.
- Development of an admin module with features for user registration, survey uploads, and access management.
- Configuration of AWS API Gateway endpoints protected by JWT, with backend logic in Lambda functions for data processing and cleaning.
- Storage of survey files in AWS S3 and deployment of the application in AWS Amplify.
- Management of roles and protected routes on the frontend using Angular guards according to the authenticated user type.

**Vicerrectorado de Docencia EPN**  
**Intern at the Vicerrectorado de Docencia**

Quito, Ecuador  
February 2024 – July 2024

- Design and development of logic for cleaning satisfaction survey data.
- Generation of graphs for decision-making.
- Creation of presentations and reports based on data.
- Development of a website for automating graphs using Angular, Tailwind, and Django.
- Implementation of both backend and frontend on an Ubuntu server via Nginx.
- Server management using SSH connections through Putty.
- Addition of new features to the website as needed.

- Configuration and corrective and preventive maintenance of desktops, laptops, and switches.
- Installation and configuration of internal networks.
- Provision of technical support to administrative and teaching staff.
- Supervision and updating of the laboratory inventory.

## Skills and Interests

### Technical Skills:

- **Programming Languages:** Java, Python, JavaScript, TypeScript
- **Web Development:** HTML, CSS, Angular, Tailwind CSS, D3.js, Django
- **Cloud Services:** AWS (Amplify, Cognito, S3, API Gateway, Lambda)
- **Databases:** SQL, PostgreSQL, MongoDB
- **Authentication and Security:** AWS Cognito, JWT, Role-based Authentication
- **Version Control:** Git, GitHub
- **Other Tools:** Nginx, Linux Server Management

**Languages:** Spanish (native), English (B2)

**Interests:** Web Design, Data Analysis, Video Games, Volleyball

## Publications

Recalde, L., Suntaxi, G., Martinez-Mosquera, D., Masabanda, R., Cabrera, D. (2025). *Centinela: An Intelligent System Based on an Integrated Architecture for Supporting Scholars*. In: Berrezueta-Guzman, S., Torres, R., Zambrano-Martinez, J.L., Herrera-Tapia, J. (eds) Information and Communication Technologies. TICEC 2024. Communications in Computer and Information Science, vol 2273. Springer, Cham. [https://doi.org/10.1007/978-3-031-75431-9\\_11](https://doi.org/10.1007/978-3-031-75431-9_11)

## Certifications and Courses

<b>Relational Database Certification</b> Date: May 4, 2025 Duration: 300 hours	freeCodeCamp
<b>EF SET English Certificate 56/100 (B2 Upper Intermediate)</b> Date: April 29, 2025	EF SET
<b>Learn and Understand D3.js for Data Visualization</b> Date: February 13, 2025 Duration: 9 hours	Udemy
<b>GIT+GitHub: A Complete Version Control System from Scratch</b> Date: February 10, 2025 Duration: 12 hours	Udemy
<b>Master API RESTful with ASP.NET Core Web API (.NET 9)</b> Date: February 5, 2025 Duration: 13.5 hours	Udemy

<b>Power BI TOTAL in 14 Days - Advanced Data Analyst</b> Date: February 2, 2025 Duration: 15.5 hours	Udemy
<b>Angular Pro: Take Your Basics to the Next Level</b> Date: January 29, 2025 Duration: 16.5 hours	Udemy
<b>Angular: From Zero to Expert</b> Date: January 23, 2025 Duration: 46 hours	Udemy
<b>SOLID Principles and Clean Code</b> Date: January 16, 2025 Duration: 6.5 hours	Udemy
<b>B2 English Certification</b> Date: December 2024 Duration: 108 hours	The Academy
<b>Data Visualization Certification</b> Date: August 12, 2024 Duration: 300 hours	freeCodeCamp
<b>Front End Development Libraries Certification</b> Date: June 30, 2024 Duration: 300 hours	freeCodeCamp
<b>JavaScript Algorithms and Data Structures Certification</b> Date: June 30, 2024 Duration: 300 hours	freeCodeCamp
<b>Responsive Web Design Certification</b> Date: June 27, 2024 Duration: 300 hours	freeCodeCamp
<b>Advent of Cyber 2023</b> Date: December 1, 2023 - December 24, 2023	TryHackMe
<b>Quality Assurance Certification</b> Date: August 30, 2023 Duration: 300 hours	freeCodeCamp
<b>Academic One; Level Eight</b> Duration: 80 hours Dates: August 16, 2022 – October 10, 2022	EPN - CEC
<b>Introduction to Cybersecurity</b> Duration: 15 hours Date: September 19, 2021	Cisco Networking Academy
<b>Networking Essentials</b> Duration: 70 hours Date: July 24, 2021	Cisco Networking Academy
<b>Introduction to Packet Tracer</b> Duration: 10 hours Date: July 3, 2021	Cisco Networking Academy

**Basic PC Maintenance and Assembly**

Duration: 60 hours

Date: September 29, 2014 - October 27, 2014

SECAP

**English Proficiency**

Duration: 480 hours

Date: September 27, 2010 - September 27, 2011

Howard Institute