



Gustavo Castrejon

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EDUCATION

University of California, Los Angeles (UCLA)

B.S in **Electrical Engineering**, Computer Science Specilization

Expected Graduation: 2026

Upper-Division GPA: 3.6 / 4.0

EXPERIENCE

Software Engineer Intern, **Bank of America** | Dallas, TX

2024 - 2025

- Automated SQL Server privilege revocation and cleanup across **1K+ databases**, cutting manual effort by **70%**.
- Deployed compliance-ready solution with **rollback safety and full audit logging**.
- Built **full-stack SBOM web app** (Python/Flask + React) to track **200+ internal apps** and generate CVE vulnerability reports.

Electrical Engineer Intern, **California NanoSystems Institute** | Los Angeles, CA

2023 - 2024

- Developed **Python-based calibration and analysis tools** supporting **EMI (Electromagnetic Interference) sensor systems**, automating data collection across **50+ multi-axis devices** and improving calibration accuracy by **60%**.
- Collaborated with **BioPhisher Inc.** to **update and extend proprietary EMI testing software**, delivering a customized version that added real-time data visualization and automated report generation.
- Integrated radar simulation modules using **NumPy** and **SciPy** to model interference patterns and optimize sensor placement, increasing signal precision by **25%**.

Electrical Engineer Intern, **California NanoSystems Institute** | Los Angeles, CA

2022 - 2023

- Designed embedded test automation scripts in **Python** and **MATLAB**, replacing manual validation for 20+ hardware boards and cutting testing time by 50%.
- Implemented data-integrity pipelines for sensor verification and maintained repositories for 3 active projects.

Engineering Tutor, **UCLA** | Los Angeles, CA

2023 - 2025

- Tutored upper and lower division Circuit Theory and Computer Science to undergraduate engineering students.
- Designed lesson plans that helped students improve at least one full grade above the class median.

TECHNICAL PROJECTS

BruinBuzz — iOS App | Full Stack Engineer

- Launched an iOS app for UCLA clubs within **9 weeks**, leading a **4-person development team** and contributing **20–30 hrs/week**.
- Developed **Firebase backend** for real-time updates, authentication, and data storage; implemented full-stack integration using **Swift (iOS)** and **Firebase SDK**.
- Promoted app to student organizations and achieved **Apple App Store approval**, driving **150+ initial downloads in the first month**.

MyStyle — Web Application | Full Stack Engineer

- Collaborated with a **team of four engineers** to build a full-stack social media web app for personalized clothing recommendations.
- Developed secure **authentication and 2FA** features using **Firebase**, integrating **email verification** and real-time database storage.
- Designed responsive **frontend interfaces in React**, emphasizing smooth navigation, user-friendly layouts, and interactive elements.
- Coordinated **frontend-backend integration** through REST APIs and version control on GitHub, ensuring efficient team workflow.

SKILLS

Languages: Python, C++, C, JavaScript, Swift, SQL

Frameworks & Tools: Flask, React, Firebase, Node.js, Git/GitHub, REST APIs, Docker, MATLAB, NumPy, SciPy

Systems & Databases: SQL Server, Linux, Bash, PowerShell

Concepts: Full-Stack Web Development, Database Automation, Data Visualization, Secure Software Design, Agile Development

Certifications: Cybersecurity Fundamentals – SHPE / MindEdge Learning

Languages: English (Fluent), Spanish (Fluent)