

# Angel J. Haro

U.S. Citizen

Confidential Clearance

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Los Angeles, California

## Technical Skills

- **Languages:** Shell(Script Automation, Unix-based Scripting, YAML, TOML), Java(Spring-Boot, Spring-Security, Maven, LittleDarwin), Python(Django, Pip3, TensorFlow, Pandas, Seaborn, NumPy, Matplotlib, Jupyter Notebook), JavaScript & TypeScript (ReactJs, NextJs, TailwindCSS, Bootstrap, Framer-Motion)
- **Development Tools:** Databases (MySQL, PostgreSQL, Cassandra), API Tools (Postman, Httpie), Package Managers (Maven, Pip3, Npm, Poetry, Homebrew), tools (Vim, VSCode, Git, VirtualBox, Parallels)

## Education

**B.A. Computer Science**, California State University, Dominguez Hills

Expected: DEC 2023

GPA: 3.3

**Relevant Coursework:** Core Computer Science (Data Structures & Algorithms), Design Patterns (MVC, Repository, RestAPI)

## Experience

### Software Engineer Intern

Turner Fairbank Highway Research Center

May 2023 - Aug 2023

McLean, Virginia

- Authored user guides and technical documentation that improved Cooperative Driving Automation testing accuracy by automating processes and reducing simulation errors, facilitating smoother integrations for OpenPilot systems.
- Resolved critical software configuration issues in multiple systems, achieving a 12% reduction in integration errors and enhancing the reliability of federal vehicle tests.
- Improved federal multimedia content quality by 7%, measured by compliance with video standards, through the optimization of a machine learning algorithm (Netflix's VMAF).

### Lead Computer Science Scholar CSUDH Coding Club

Aug 2021 - Sept 2023

Los Angeles, California

- Drove the expansion of the computer science program from 3 to 13 schools, translating to a 433% increase in institution participation, by partnering with LAUSD and Apple to design and implement collaborative initiatives.

## Research

### Software Research Engineer, Google exploreCSR

Mentor: Dr.Tang

Jan 2023 - Present

Los Angeles, California

- Developed a modern and secure website, ensuring intuitive navigation and a consistent interface across 70% of device types, by leveraging responsive design practices and robust content management systems.
- Optimized website performance and doubled responsiveness for user requests by deploying prioritized loading for key page elements.

### Software Development Engineer in Test (SDET), Local Research Experiences for Undergraduates

Mentor: Dr.Ayad

Feb 2023 – Oct 2023

Union, New Jersey (remote)

- Amplified code quality analysis by integrating Java benchmarks into Maven for mutation testing, analyzing over 10,000 lines of code with Python, and streamlining results into Excel for strategic review.
- Secured second place in a field of 160 at the GMIS Competition by conducting a mutation testing research study that enhanced software testing methodologies, using the LittleDarwin framework.

## Project

### Open Source Portfolio | NextJs, TailwindCSS, Spring(Boot,Security) Httpie, MySQL

[github.com/aharoJ/portfolio](https://github.com/aharoJ/portfolio)

- Developed and designed a portfolio website with integrated full-stack features, including an easy-to-use theme switcher for light and dark modes and a multi-page layout that enhances content discoverability and visitor navigation experience.
- Secured a content management system, enhancing data management with MySQL and bolstering user security with Spring Security to prevent unauthorized access.

### Twitter Redesign | TypeScript, ReactJs, Spring, Postman, PostgreSQL

[github.com/aharoJ/twitter-redesign](https://github.com/aharoJ/twitter-redesign)

- Redesigned Twitter platform's user interface to improve interaction and aesthetics. Emphasized performance tuning and responsive design to provide a great and interactive user experience across different devices.
- Boosted server response times by refining the application code and utilizing Spring Boot's features to enhance the operation and efficiency of our web services.