Angel J. Haro

U.S. Citizen   Confidential Clearance

https://aharoj.io
https://linkedin.com/in/aharoj
https://github.com/aharoJ

haro.j.angel@gmail.com
(562) 556 - 4540
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

Research Development Software 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.

Software Engineer Intern   May 2023 - Aug 2023
Turner Fairbank Highway Research Center   *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   Aug 2021 - Sept 2023
CSUDH Coding Club   *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.

Project

Open Source Portfolio | NextJs, TailwindCSS,Spring(Boot,Security) Httpie, MySql   *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*

• 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.