



Angel J. Haro

U.S. Citizen

Confidential Clearance

haro.j.angel@gmail.com

(562) 556 - 4540

Los Angeles, California

• <https://aharoj.io>

• <https://linkedin.com/in/aharoj>

• <https://leetcode.com/aharoJ>

Technical Skills

Languages: Advanced (Shell Scripting, Java, Python) | Proficient (JavaScript, HTML, CSS, YAML, TOML, TypeScript) | Novice (C++, C)

Frameworks & Technologies: Frameworks (Spring Boot, Django, Spring Security, OAuth2, ReactJs, NextJs, TailwindCSS, TensorFlow, Jupyter Notebook) | Databases (MySQL, PostgreSQL, Cassandra) | API Testing (Postman, Httpie) | Package & Dependency Managers (Maven, Pip3, Npm, Poetry Homebrew) | ML Libraries (Pandas, Seaborn, NumPy, Matplotlib)

Development Tools: IDEs & Editors (Vim, VSCode, Sublime) | Version Control (Git) | OS (Mac, Windows, Ubuntu, Kali, Arch) | Virtualization (VirtualBox, Parallels)

Education

California State University, Dominguez Hills Bachelor of Science, Computer Science Expected: DEC 2023 GPA: 3.3

Relevant Coursework: Core CS (Data Structures & Algorithms) | Design Patterns (MVC, Repository, Singleton, Factory)

Experience

🚩 **Reverse Eng. Intern** | Turner Fairbank Highway Research Center | McLean, VA | May, 2023 - Aug, 2023 |

- Authored documentation on OpenPilot's integration, improving **CDA** (Cooperative Driving Automation) testing accuracy through automated testing processes and reducing simulation and dependency defects by 20%.

- Resolved 9 configuration challenges in **Poetry**, **Carla** Simulation, and **Openpilot** by *Comma.ai*, reducing integration errors by 22% ensuring consistency across federal vehicle tests.

- Employed Netflix's **VMAF** (Video Multimethod Assessment Fusion) technology to optimize video quality assessment, assuring video quality metrics of FHWA public challenges' content by 7% for federal standard for multimedia deliverables.

🍏 **Lead Apple Teacher** | Apple | Los Angeles, CA | Aug, 2021 - Sept, 2023 |

- Directed a team to introduce computer science concepts to 13 schools, and architected a collaborative program infrastructure with **LAUSD** and **Apple**, resulting in a 433% **expansion** of participating institutions and enhanced STEM engagement.

Research

🌐 **Front-End Explorer** | Google | Remote | Jan, 2023 - Present | Mentor: Dr.Tang |

- Implemented a custom **light-dark** theme switching mechanism and employed advanced CSS for responsive text and image sizing across devices and ensuring a consistent UI for 70% of modern devices.

- Deployed prioritized **object loading** for 50+ page elements, improving fetch page responsiveness by 2x the normal rate.

🔪 **Mutation Tester** | LREU | Remote | Feb, 2023 - Oct, 2023 | Mentor: Dr.Ayad |

- Integrated **Java** benchmark and **Maven** projects for controlled environment mutation testing, and assisted in analyzing 10,000+ Lines of Code with **Python** scripts, exporting data to **Excel** sheets for further analysis, helping in code quality optimization.

- Secured **2nd place** among 160 in the **GMIS** Competition with a study on mutation testing using the **LittleDarwin** framework, revealing insights for enhancing software testing.

Project

📁 **Full Stack Portfolio** | <https://github.com/aharoJ/portfolio> | <https://aharoj.io> |

- Designed a portfolio using **NextJs**, TailwindCSS, backed by Spring-Boot, and **Spring-Security**, and utilized Httpie, Postman, Data-Jpa, and **MySql** for database and **API** management, improving backend operations efficiency by 20%.

🐦 **Twitter Redesign** | <https://github.com/aharoJ/twitter-redesign> |

- Modernized the user interface with a new UI design utilizing **TypeScript**, **React**, HTML/CSS, and enhanced data handling and server-side operations, reducing response times by 5% via **Spring Boot**, **PostgreSQL**.

🖥️ **Tmux Config** | <https://github.com/aharoJ/tmux-config> |

- Developed an interactive terminal experience featuring real-time **Spotify** playback and an adaptive status bars with pane indicators, alongside a custom **shell script**, elevating terminal efficiency and window management time by 50%.