



# Angel J. Haro



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## Education

### CALIFORNIA STATE UNIVERSITY DOMINGUEZ HILLS

Bachelor of Science in Computer Science

## Relavant Experience



### LEAD APPLE TEACHER

- Developed interactive programming presentations with exercises, activities, and projects at institutions w/out programming courses.
- Engaged in public speaking to educate schools about computer science in topics such as, hacking, linux distro's, machine-learning, web dev, and dsa.



### REVERSE ENGINEERING INTERN

- Reverse engineer software to make automation of vehicles(AoV) integrade w/federal tools and software.
- Engineered simulation toolkits and frameworks, including setting up and configuring virtual environments for autonomous driving development.

## Research



### UNDERGRAD RESEARCHER

- Machine Learning: libs, frameworks, algos, data manipulation, visualization.
- Full Stack: javascript, typescript, html, css, react, nextjs, tailwindcss



### UNDERGRAD RESEARCHER

- Research the correlation between mutant score and the size of functions and mutant operators, and measure the effectiveness of test suites.
- Utilized Java benchmark and Maven projects in experiments.
- Pitest to generate mutations, write Python scripts to find LOC function.

## Projects | Contributions

### OPENSOURCE

<https://github.com/aharoJ/opensource>

- Array of topics: CS | Hacking | DSA | ML | Web dev | Frameworks | Libs
- contributions: Starship, Alacritty, Vivaldi, Vim, Tmux, Obsidian and more.

### MACHINE LEARNING

<https://github.com/aharoJ/opensource>

- Over 8,000 lines of markdown notes on just machine learning, modules, libraries, techniques along with an enourmous code repository.

### TWITTER CLONE

<https://github.com/aharoJ/twitter-clone>

- Full-stack Twitter App using Java and Javascript, Spring-Boot, Spring-Security, PostgreSQL, Authentication, React, Tailwindcss .

### STARSHIP

<https://github.com/aharoJ/dot-starship>

- designed w/the goal of productivity | pre-sets' | .config files | color.conf.

## Software Developer

### Architectural Background

database: mysql, postgresql, nosql, cassandra.

cloud: aws, google cloud.

architectural patterns: mode-view-controller.

design pattern: repository, singleton, factory.

### Developer Tools

editor | ide: vscode, vim, sublime, eclipse, jetbrain-toolbox.

framework/libss: spring-boot, django, flask, tensorflow, maven, oauth, react, nextjs, tailwindcss.

tools: nvim/vim, starship, git, exa, obsidian, z, flameshot, keycastr, rectangle, tmux, sponge, raycast.

### Infrastructure

standard os: mac, windows.

linux distro: ubuntu - kali - arch.

devops tools: tmux, slack, tom, virtualbox, parallels, git-control, bash, zsh, alacritty, npm, npx, pip3,fish-shell, homebrew.

### Algorithm Awarness

#### DATA STRUCTURES

hashmaps, stacks, sorting matrices, binary trees, two pointers, linked lists.

#### ALGORITHMS

breadth-first search (BFS), depth-first search (DFS), greedy algorithms, dynamic programming, divide and conquer, backtracking, and binary search

#### Machine Learning

libraries: pandas, seaborn, numpy, matplotlib

techniques: classification, unsupervised learning, hypothesis function, vectorization and regression

#### Languages

| SHELL SCRIPTING | JAVA |

| PYTHON | HTML | CSS | JS |

| YALM | TOML | C++ | C | TS |



## Hobbies

physical activities: gym, soccer, boxing, skating.

anime enthusiast: vinland, fma, aot, demon slayer.

video game enthusiast: regional professional fifa.