

# Isaiah Alcayde

[isaiahalcayde@gmail.com](mailto:isaiahalcayde@gmail.com) | [linkedin.com/in/isaiah-alcayde/](https://linkedin.com/in/isaiah-alcayde/) | [github.com/IsaiahWut](https://github.com/IsaiahWut)

## EDUCATION

### University of California, Riverside

B.S. Robotics, 3.83 GPA

Riverside, CA

Expected Graduation: June 2027

**Relevant Coursework:** Data Structures and Algorithms, Discrete Structures, Machine Organization & Assembly Programming, Object Oriented Programming, Software Construction, Engineering Graphics and Design

**Honors:** Chancellor's Honors List, Dean's Honors List

## EXPERIENCE

### ACM Web Developer

January 2025 – June 2025

TypeScript, React, TailwindCSS, Node.js, Prettier, ESLint

- **UCR CSE AI Resources Website** — Collaborated with a 10+ person team to build a responsive, informative website using modern frontend frameworks. Contributed to front-end development and performance optimization.
- Managed deployment pipeline and maintained production build, **resolving issues** and implementing enhancements for usability and design.
- *GitHub:* [github.com/acm-ucr/CSE-AI-resources](https://github.com/acm-ucr/CSE-AI-resources)
- **Katipunan PSO Website** — **Enhanced responsiveness** by configuring TailwindCSS breakpoints and applying conditional utility classes to optimize layout and component behavior for mobile, tablet, and desktop views.
- Used flexible grid/flexbox techniques to ensure consistent design and usability across various screen sizes.
- *GitHub:* [github.com/acm-ucr/katipunan-psycho-social-website](https://github.com/acm-ucr/katipunan-psycho-social-website)

## PROJECTS

### Gmail Agent Organizer

Feb 2025 – Mar 2025

Python, Agentstack, Gemini, Gmail API

/Gmail-Organizer-Agent

- \* Built an AI email organizer using **Python**, **Agentstack**, and **Gmail API** to auto-label, categorize, and reply to emails.
- \* Integrated **OAuth 2.0** for secure access and token management.
- \* Structured emails as JSON for use in LLM-based auto-categorization and smart replies.

### Wildfire Risk Assessor – Hackathon Project

January 2025

Python, Flask, Gemini API, Google Geocoding API, HTML/CSS

/wildfire-risk-assessor

- \* Co-developed a web app achieving **85%** accuracy in wildfire risk assessment using a custom algorithm analyzing 10+ weather parameters.
- \* Integrated **OpenWeatherMap API** to gather real-time weather data, improving risk accuracy through dynamic temperature, wind, and humidity inputs.
- \* Incorporated **Gemini API** for AI-generated preparation tips, enhancing user decision-making.
- \* Engineered a data-driven prediction pipeline to refine risk calculations and boost emergency response via hazard mapping.

### Web Scraping and Automation Bot

January 2025

Python, Selenium

/Basic-Needs-WebForm-Filler

- \* Built an automation bot using **Selenium** to auto-fill online forms, reducing manual effort and wait time by **80%**.
- \* Designed **web automation** workflows to navigate dynamic pages, handle form submissions, and ensure accurate data entry.
- \* Optimized registration process by eliminating repetitive steps, **increasing efficiency** and reducing submission errors.

### Task Organizer

April 2025 – June 2025

C++, GoogleTest

/CS100-TaskOrganizer

- \* Collaborated within a **4-person developer team** to develop and design a C++ task management system featuring **30+ interactive menu screens** for managing tasks and subtasks.
- \* Applied **SOLID principles** to refactor core classes (TaskList, TaskItem, SubTask) into modular components with clean separation of logic and output.
- \* Applied test-driven development (TDD) practices to **validate 30+ unit tests** using GoogleTest, achieving **90%** code coverage

## Carousel Design Project

April 2025 – June 2025

*SolidWorks*

*/ME9-Design-Project*

- \* Designed and modeled an inclusive playground carousel in SolidWorks, featuring **10+ custom parts** to meet ADA and universal design standards.
- \* Incorporated **2 degrees of freedom—360° rotation** and vertical motion via springs—enhancing vestibular stimulation for users of all abilities.
- \* Ensured **accessibility with wheelchair slots, ramps, and secure locking mechanisms**, fitting within a compact 12x12 ft footprint.

## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, Typescript, HTML/CSS

**Frameworks:** React, Node.js, Next.js, TailwindCSS

**Developer Tools:** Git, GitHub, VSCode, Agentstack, Solidworks

**Libraries:** Selenium

**Concepts:** Software Engineering, Frontend, Backend, Agile Methodologies, CAD Modeling

**Organizations:** UCR@ACM