

JERALDY CASCAYAN

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SKILLS

- Programming Languages: C/C++, Rust, Javascript/Typescript, Python, Lua, SQL, Bash
- Familiar with: Performance Analysis, System Architecture, Agile Methodology, CI/CD, Kubernetes
- Tools: Linux, Selenium, Jenkins, Git, ESLint, Jest, AWS, Next.js, Jira, Docker

INDUSTRY EXPERIENCE

Software Engineer Content Developer, Sci-MI | Honolulu, HI

Nov 2023 - Curr

- Devised a Software Engineering curriculum, concentrating on theoretical foundations and advanced methodologies, including systems architecture, development life cycles, and quality assurance protocols through **Typescript**
- Engineered and conveyed Software Engineering research content, inspiring first-gen, underrepresented students towards scientific careers, championing diversity and educational equality

Software Engineer Intern, Kuure | Portland, OR

Sep 2019 - Nov 2019

- Restructured healthcare e-commerce webpages from **Wix** to **MERN** Stack with **Redux** and **Jest** Unit Testing in **Typescript** and **Sass**, optimizing page speed by 10% along with responsive web design through **GitLabs** CI/CD
- Fostered engineering rigor and software quality by engaging in bi-weekly code sprints, agile stand-ups, and meticulous iteration planning, driving forward the development pipeline

Software Engineer Intern, Purple Ma'ia Indigenous Accelerator | Honolulu, HI

July 2019 - Sep 2019

- Architected a data-driven market research system using **React** for front-end, with **Python/Node.js** back-end, automating data collection via **Selenium** web scraping, to make intelligent early-stage startup decisions
- Assisted 7 startup workshops for 25+ Hawai'i indigenous founders to kickstart tech entrepreneurship deeply rooted in Aloha 'Āina, using technology to innovate community development, agriculture, and green energy

RELEVANT PROJECTS

Rapid Games Open Source Framework

Sep 2023

- Created a **Typescript** open source game framework with MVC architecture and **React** UI, tailored for game-as-a-service and robust networking, including Dependency Injection and Data-Driven Design for modularity and flexibility
- Implemented key design patterns (Observer, Strategy, State) and established an automated CI/CD pipeline with **GitHub Actions** for rapid and iterative game development and seamless game publishing. View source on [Github](#)

Cairtext.com

June 2018

- Founded a B2B SaaS AI-driven healthcare pilot startup, achieving over 1000 unique visits within 48 hours, emphasizing accessibility between healthcare providers and patients, specifically for maternal and infant health
- Engineered a robust full-stack messaging solution integrating a web application with SMS capabilities using **JavaScript**, **HTML/CSS**, and **Firebase**, leveraging the **Twilio** API for seamless cross-platform communication. View source on [Github](#)

EXTRA-CURRICULAR

Technical Writer, simulacrae.com

Nov 2019 - Curr

- Engineered a writing hub and penned 100+ blogs on VR/AR/Metaverse and their philosophical and social computing aspects, summarizing academic papers and key technologies. View [simulacrae.com](#)

Competitive Programmer, A.C.M. ICPC

Nov 2019

- Represented UH Manoa at the 2019 ACM-ICPC Pacific Northwest Regional Contest to solve various interesting algorithmic problems in **Python** and **Java** among numerous collegiate teams, solving core computational problems

Founder/President, Awesome Computations Club

July 2019 - Sep 2019

- Founded and taught a curriculum that teaches computational thinking through artificial intelligence and game development to high school students weekly through **Python**, emphasizing project-based learning and mentorship

EDUCATION AND AWARDS

University of Hawai'i at Manoa, Honolulu, HI, B.S. Computer Science

Expected Graduation:

Dec 2024

- Current Courses: Linear Algebra & Differential Equations, Discrete Mathematics for CS, Statistics & Probability
- Past Courses: Java OOP, Algorithms, Cognitive Science in CS, Machine Learning, Network Science Methodology, Artificial Intelligence, Database Systems
- Activities/Awards: NASA IRTF Selection Award, Hack4theSea Hackathon (1st Place), e-ICON World Contest (1st Place), AFA CyberPatriot (Gold Tier)