Kainoa Nishida

949-246-6367 kainoanishida@gmail.com Portfolio linkedin.com/in/kainoa-nishida github.com/KainoaNishida

EDUCATION

University of California - Irvine Expected Graduation: June 2026
Double Major in Computer Science and Mathematics GPA: 3.99 / 4.00

COURSEWORK

CS: Design/Analysis of Algorithms, Data Structures, Machine Learning, Software Design, Database Management, Computer Organization

Math: Algorithmic Game Theory, Markov Chains and Stochastic Processes, Probability, Linear Algebra, Discrete Mathematics

SKILLS

Languages: Python, C++, Javascript

Technologies: Git, AWS, SQL, React

General: Algorithms & Data Structures, Case Design and Testing, Performance Optimization, Software Development Lifecycle (SDLC), Machine Learning, Object-Oriented Programming (OOP), API Development and Integration

EXPERIENCE

Irvine Spatial Neuroscience Laboratory, *Software Engineer* | Irvine, CA *June 2024 - Present*

- Enhanced scheduling efficiency by 40% through the migration from Google Calendar to a custom scheduling software developed using backend technologies.
- Improved organizational capabilities for professors, researchers, and volunteers by developing frontend and backend components of a system fine-tuned for academic use, similar to Canvas.
- Currently being used by the laboratory, which consists of 10+ faculty, over 50 employees, and 100+ volunteers throughout the year.

Commit the Change, *Full-Stack Software Developer and Director of Education* | Irvine, CA *November 2022 - Present*

- Developed a volunteer management dashboard for Get Inspired, automating manual processes and improving efficiency. The number of clams that were documented per week increased by 2x.
- Built a communication system for Feeding Pets of the Homeless to coordinate pet food donations, reducing weekly labor hours by 50+.
- Facilitated effective data science applications in professional projects at Commit the Change by utilizing data structures and algorithms to solve complex problems.
- Continually met with various stakeholders (NPO directors, employees, and volunteers) to refine software design and re-evaluate requirements.

Donald Bren School of ICS, *Learning Assistant* | Irvine, CA *January 2023 - March 2023*

- Assisted over 30 undergraduate CS students with coding assignments and explained complex programming concepts.

PROJECTS

Digital Platform for Get Inspired (NPO) | React, MySQL, Node.js, JavaScript, Firebase

Developed a digital dashboard for an NPO's volunteer team, increasing team size by 133%, improving efficiency and scalability.

Minesweeper Solver | Python, IntelliJ

Achieved an 83% success rate through recursive backtracking, frontier-splitting, solving constraint satisfaction problems, updating/maintaining equivalence classes, and using a MRV degree heuristic.

Mental Health Assistant - Irvine Hackathon | ReactNative, React, AWS, OpenAI, Express

A Google Chrome extension to track and manage the emotional well-being of friends and family through an ML agent that performed sentiment analysis (trained on a public ML dataset), providing insights for better support.

AWARDS

ICS Honors, Donald Bren School of ICS *July 2024*
Fall Book Award, Phi Beta Kappa *November 2023*
Regent's Scholarship, University of California, Irvine *July 2022*
National Merit Finalist (1580 SAT), National Merit Scholarship Program *June 2022*
Dean's List, University of California, Irvine *All Quarters*