Kai Garcia

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Education

University of Hawaii at Manoa — Expected May 2025
Bachelor of Science in Computer Science — *Honolulu, Hawaii*

- **Coursework Highlights:** Robotics and Cyberphysical Systems, Computer Vision, Software Reverse Engineering (GDB, Assembly, Ghidra), Operating Systems, Data Structures and Algorithms, Data Networks

Technical Skills

Languages: Python, C, C++, Javascript, Java, SQL, PHP, Assembly
Technologies: AWS, Google Cloud, MongoDB, React.js, Next.js, Tailwind, Express.js, OpenCV, NumPy, Bootstrap, Ghidra, GNU Debugger, Node.js, CyberChef

Experience

SDA TAP Lab - US Space Force — Aug 2024
Computer Vision Intern — *Colorado Springs, Colorado*

- Developed an automated rocket launch detection system using pattern recognition algorithms with **Python libraries NumPy** and **OpenCV**, analyzing GOES satellite IR imagery for near real-time identification and alerting of launch events.

Bayze — May 2024 – Present
Data Engineer — *Honolulu, Hawaii*

- Designed and implemented a telemetry data pipeline using **TypeScript**, **AWS** (CloudWatch, Glue, Lambda Python scripts, QuickSight), and **Power BI**, enhancing data visualization and analysis for health and retention monitoring.

ISEC Society — Dec 2022 – Aug 2024
Software Engineer — *Honolulu, Hawaii*

- Spearheaded **LAMP (PHP & Typescript)** project revamp, introduced advanced payment tracking for $100K+ transactions, and developed **REST API**, boosting financial oversight and efficiency.
- Enhanced engineering efficiency and reduced errors by integrating local testing, adopting Kanban, and refining version control, shortening production cycles.
- **Recruited and trained** 3 developers, fostering a collaborative environment through effective backlog grooming and pair programming, enhancing team productivity by 300%.

Mana Technologies — Mar 2024 – Jun 2024
Freelance Software Engineer — *Honolulu, Hawaii*

- Developed an authentication system with **Firestore** and **Google Cloud Functions**, and built a **Next.js** and **Tailwind CSS** dashboard interfaced with a **Flask** app and **Google BigQuery** for streamlined access to 4 years of asset management data.

Extracurricular

Calvin Shindo Student Venture Fund | *Associate* — Jan 2024 – Present

- Managed a $125,000 fund, screened 15 companies, performed due diligence, and presented findings to a board of investors, leading to successful investments in 3 companies.

Computational Imaging and Robotic Perception (CIRP) Lab | *Researcher* — Sep 2024 – Present

- Developing an in-wheel polarization camera system to perform high-resolution terra-mechanic monitoring (i.e. precise wheel deformation, soil slip factor, etc).

Honolulu Tech Week Hackathon 2024 | *Winning Team* — Sep 2024

- Won **Best Hardware Project** and **Audience Choice Award** for developing a **Python** BLE-based mobile application using **Swift** for iOS that detects moped thefts in real-time, alerting users via the university network. The system utilized an Arduino Nano ESP32 and an Adafruit IMU for motion detection and communication.