Daniel Malone

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As a Computer Science graduate from the University of Hawai'i at Hilo, I am passionate about software engineering, machine learning, game design, and data analytics. With my experience developing science-based AI solutions and optimizing/maintaining software across a myriad of languages, I am excited to find a team where I can exercise my technical knowledge and collaborative skills. I am also pursuing my Masters of CS at Texas A&M (grad. 2025-2026).

PROFESSIONAL EXPERIENCE

University of Hawai'i at Hilo   **Hilo, HI**
Machine Learning Research Assistant   *August 2023 – May 2024*

- Played a pivotal role in refining and enhancing a sprawling Python codebase for a USDA/NSF-funded research grant, focusing on improving code consistency and efficiency across the large-scale project.
- Gained specialized experience in TensorFlow neural networks and various interpolators by contributing to developing AI evaluators designed to identify key data points across diverse scientific fields for in-depth analysis.
- Fostered collaborative success through effective teamwork and communication, enhancing project outcomes while gaining proficiency in using Git for version control and code repository management.
- Aided in the mentorship of a student working on the project in Python, Git, and their work on a Diffusion interpolator.
- Acquired hands-on experience in Linux command line and server management through deploying and running code on a Linux GPU server, enhancing operational efficiency and project scalability.

The Pacific International Space Centre for Exploration Systems   **Hilo, HI**
Software Engineer Intern   *August 2023 – May 2024*

- Played a critical role in enhancing Mars test rover functionalities by conducting comprehensive code reviews and optimizations across multiple programming languages, including C++, Rust, Java, and C.
- Performed extensive documentation for the rover's codebase, filling gaps and ensuring future maintainability and scalability.
- Worked on integrating a 360-degree camera into the rover's system to improve mission visibility and operational capabilities, all while executing rigorous testing to ensure future reliability.
- Undertook the maintenance of the outdated rover UI and control systems, revitalizing legacy equipment for enhanced functionality.

EDUCATION

University of Hawai'i at Hilo, Hilo, HI
B.S. Computer Science (May 2024)

Texas A&M, College Station, TX
M.S. Computer Science (May 2026)

ADDITIONAL SKILLS

- Python, C++, C, Bash, Rust, R, Git, GitHub, Machine Learning, Agile Methods, SCRUM, TensorFlow, PyTorch, Anaconda
- Mandarin Chinese (conversational)