# Anthony Mui

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Website: https://portfolio-website-410a2.web.app | GitHub: https://github.com/agmui/

## Education

**Rose-Hulman Institute of Technology**                                                          *May 2025*
Bachelor of Science, Computer Science                                                        Terre Haute, IN
Minor: Math                                                              GPA: 3.36/4.0 (7 times Dean's List)
**Relevant Coursework:** Databases, Web Development, Operating Systems, Graph Theory, Linear Algebra, Networks

## Skills

**Programming Languages:** Python, Scala, Java, Go, SQL, C, C/C++, Rust, TypeScript, HTML/CSS, Scheme, Bash
**Frameworks:** Bazel, CMake, Docker, Node.js, Firebase, Git, Svelte, Pandas, TensorFlow, ROS
**Platforms:** Jetson, Linux (Ubuntu/Fedora/Arch), Windows
**Soft Skills:** Fluent in Chinese, Beginner-level Japanese
**Organizations:** Rose Tech Radio Club, SASE, Kappa Theta Pi, RoboMasters Software Leader

## Work Experience

**Backend & Infrastructure Engineer**                                                 *June 2025 – Sep 2025*
Hyperionsoft                                                                              Los Angeles, CA
— Developed backend infrastructure for Fiscali for End-to-end AI compliance checks on financial agreements and data.
— Deployed and maintained company website, implementing custom infrastructure and hosting.
— Designed and built a full-stack Catan game with C++ backend and Protocol Buffers for communication with the frontend.

**Robotics Researcher for the Blossom Socially Assistive Robot Initiative**          *March 2024 – Aug 2024*
Rose-Hulman: | https://github.com/agmui/blossom-public                                      Terre Haute, IN
— Led Multi-Modal Interface Development: Spearheaded the creation of multi-modal interfaces incorporating speech2text, gesture recognition, and visual feedback to facilitate intuitive user interactions.
— Published Research and Findings: Co-authored research papers and presentations detailing advancements in socially assistive robotics, contributing to the project's academic recognition.

**Teaching Assistant for OS Course**                                               *November 2022 – May 2025*
Rose-Hulman | https://github.com/agmui/Gradescope_Setup                                     Terre Haute, IN
— Autograder Implementation and Management: Set up an autograder on Gradescope, running unit tests on student submissions to ensure accurate and efficient grading saving over 50 hours of manual grading.
— Docker and AWS Integration: Deployed the autograder in Docker containers running on AWS servers, ensuring scalability, reliability, and ease of local development.
— Automated Code Checker: Developed a custom program to perform equivalence checks, for senior Thesis, between student submissions and known good solutions to automate the grading process further.

## Projects

**Previous Robomasters Software Lead**                                                 *Sep 2021 – Aug 2025*
Rose-Hulman | https://github.com/RHIT-Robomasters/CV-AI                                      Terre Haute, IN
— Managed and led multiple sub-teams in the Robomasters software team powered by a Jetson for computer vision and STM32 controls code
— Implemented a custom computer vision pipeline with 16 ms latency for tracking of targets, along with a custom communication protocol between STM32 and Jetson.
— Integrated ROS for full autonomous navigation and real-time adaptive collision avoidance.
— Mentored and worked with a multidisciplinary team of engineers and achieved Top 5 placement at the RoboMaster National Competition UCSD 2025

**Automated Notion-to-Webpage Deployment**                                        *November 2024 – Present*
Rose-Hulman | https://github.com/agmui/notion2hugo_test                                      Terre Haute, IN
— API Integration and Data Export: Leveraged the Notion API to export Notion pages into Markdown format.
— Markdown to HTML Conversion: Utilized Hugo to convert Markdown files into HTML, allowing for any custom pre-made themes for enhanced visual presentation.
— Automated Deployment with GitHub Actions: Developed a Continuous Deployment (CD) pipeline using GitHub Actions, automating the workflow and allowing for periodic updates from the Notion
— Improved automation efficiency: Optimized Notion page searches, achieved a 50% reduction in build times through process optimization.
— Web Hosting on GitHub Pages: Managed deployment and hosting on GitHub Pages, overseeing the continuous integration and delivery pipeline.
— Website: https://agmui.github.io/rhit_docs.github.io/docs/
**Other Projects** Robomasters Game | Genetic Algorithm Framework | Robomasters Website | Racket Interpreter