

Tyler Mestery

612-224-5980 | tyler@mestery.com | linkedin.com/in/tmest | github.com/tmestery

Education

Iowa State University - Bachelor of Science in Computer Science

August 2024 - Expected May 2027 | Ames, IA

Relevant Coursework: Data Structures & Algorithms; Object-Oriented Programming and Design; Software Development Practices; Computer Architecture; Computational Structures; AI Ethics

Experience

Machine Learning Engineer Intern | Cisco | May 2026 - Present | San Jose, CA

- Working at the intersection of AI and Cybersecurity on the Secure CTO Team.

Information Technology Support Specialist | Iowa State University | July 2025 - April 2026 | Ames, IA

- Provided technical support for faculty and troubleshooted hardware, software, and network issues.

- Managed IT inventory, system setup, imaging, deployments, and account/software maintenance.

Undergraduate Researcher (Machine Learning) | Iowa State University CS | Oct 2025 - Jan 2026 | Ames, IA

- Built an automated code transformation pipeline translating PyTorch ML workloads into JAX.

- Evaluated Qwen, CodeLlama, and Mistral and validated generated JAX code correctness.

Undergraduate Researcher (AI Systems) | Iowa State / Google DeepMind | Aug 2025 - Nov 2025 | Ames, IA

- Built CodeClip, a benchmark for multi-turn, preference-driven code translation.

- Developed Docker, AI API, and data pipeline automation for scalable experiments.

- Deployed on Google Cloud to run Piston for automated compilation and unit testing.

Projects

SONiC Lab | Go, Docker, Linux, SONiC, Bash, CI/CD, Open Source | Dec 2025 - Present

- Developed a Go automation tool to generate docker-compose.yml files for SONiC test deployments.

- Extended a Cobra CLI generator with better usability, validation, extensibility, and Bash workflows.

Classroom Companion (SwanHacks) | TypeScript, React, Express.js, MySQL, Deepgram, Docker, Git | Spring 2026

- Engineered real-time lecture transcription with Deepgram, Gladia, WebSockets, Q&A, glossary, and slides.

- Integrated Gemini for summaries, flashcards, and graded practice exams from recordings, PDFs, and videos.

Technical Skills

Languages: Java, Python, GoLang, C, TypeScript, LEGv8 Assembly, SQL (PostgreSQL)

Dev Tools: IntelliJ, VS Code, Android Studio, Git, GitHub, GitLab, Docker, Postman, Spring Boot, React

Cloud & APIs: Google Cloud Platform, Ollama, REST APIs, GraphQL, WebSockets

Operating Systems: Linux, macOS, Windows

Certifications

Introduction to Linux (The Linux Foundation): Linux systems, CLI tools, and system administration.
Cybersecurity Essentials (The Linux Foundation): Key cybersecurity concepts.

Extracurricular Activities

CS & SWE Club, Hackathon Club, Google Developer Club; Run Club; STA Bible Study.