



EDUCATION

University of Utah
Computer Science with Games Emphasis: **GPA 3.98/4.0**

Salt Lake City, UT
May 2021 - Dec 2025

Cybersecurity Boot Camp
CompTIA Security+ compliant

Online
Feb 2022 - Aug 2022

EXPERIENCE

Silverlake Axis
Software Development Intern

Kuala Lumpur, Selangor, Malaysia
June 2025 - Aug 2025

- Developed **5** different Java programs for **4** teams in 10 weeks on my own on top of personal projects
- Automated 4 separate workflows and saved the company from expending hundreds of manpower
- Communicated with teams regularly to update tools against new requirements and provide support and advice

University of Utah School of Computing
Teaching Assistant

Salt Lake City, UT
Aug 2022 - Present

- Helped **100+** students pass Accelerated Introduction to Object Oriented Programming with **Java** with a B or better
- Prevented **5+** students from failing and helped to retain them in their major as a Retention Teaching Assistant
- Led weekly labs, code-reviewed, held review sessions for exams, and provided feedback for assignments in **Java**

PROJECTS

NASA Lunabotics 1st Place | *Rust, tokio, nalgebra, rayon, crossbeam, video4linux*

Aug 2024 - May 2025

- Established a complete robotics framework and ecosystem from scratch in Rust (only team to do so)
 - Programmed a robot that digs and dumps **autonomously** with computer vision, and can be piloted remotely
 - Achieved **1st place** out of 70 universities and the US military at the Kennedy Space Center
- Demo:** youtube.com/live/riIPIJ0fpw?si=B0ouLRzillAKmHcK **Source:** github.com/utahrobotics/lunadev-2025

Pony Express | *React, SQLite, FastAPI, poetry, Tailwind CSS, Amplify, EC2*

Jan 2024 - May 2024

- Prototyped a real-time, responsive chat application that allows users to send messages to each other over a database
 - Maintained conclusive **unit tests** for the backend using **FastAPI**, and deployed the frontend to a public domain
- Source:** github.com/manglemix/pony-express

deTrash | *Vercel, Sveltekit, Flask, TypeScript, Google Maps, YoloV5, GPT 3.5*

Oct 2023

- Produced a frontend that used **computer vision AI** to identify trash in user submitted images and track their locations on a heat-map to help non-profit trash clean-up organizations plan their routes and save on gas
 - Achieved **2nd place** out of 247 other teams for 24 hours in the Hack OH/O 11 hackathon
- Demo:** trash-tests.vercel.app **Source:** github.com/manglemix/hackohio-frontend

SKILLS

Languages: Rust, Java, Python, Javascript, Typescript, HTML, CSS, SQL, C, C++, C#, Kotlin

Technologies: AWS (S3, EC2, DynamoDB, Amplify, Lambda, Cognito, Pinpoint, SES), Azure, Docker, Vercel, GitHub Actions, WebRTC, WebSockets, Svelte, React, SQLite, Ansible, Tailwind, Qt, MAUI, Django, MySQL, FFmpeg, Linux

Activities: Programming team lead of Utah Student Robotics; President of the Undergraduate Student Advisory Committee; Member of National Society for Leadership and Success

INTERESTS

Rock Climbing since 2019 (V5, 6b+); Practicing drumming since 2023; Hobbyist photographer pexels.com/@manglemix/