Najman Husaini

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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
Feb 2022 - Aug 2022

EXPERIENCE

University of Utah School of Computing

Salt Lake City, UT Aug 2022 - Present

Teaching Assistant

- 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 | Rust, tokio, nalgebra, rayon, crossbeam, ffmpeg

Aug 2023 - May 2024

- Established a complete robotics framework and ecosystem from scratch (only team to do so)
- Programmed a robot that digs and dumps autonomously, and uses a 2-pilot system for driving remotely
- Achieved 3rd place out of 50 universities and the US military at the Kennedy Space Center
 Demo: youtu.be/watch?v=OvzOrHbLd_M Source: github.com/utahrobotics/lunadev-2024

PortalCrawler | Godot

May 2024 - Aug 2024

- Led 4 other members in a Traditional Game Development Class Project
- Implemented all the enemy AI and pathfinding, shop, and level system, leveraging state machines
- Utilised Github Issues, Milestones, and Projects for team management with Agile workflow
 Demo: itch.io/portalcrawler
 Source: github.com/manglemix/PortalCrawler

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 OHI/O 11 hackathon **Demo:** trash-tests.vercel.app **Source:** github.com/manglemix/hackohio-frontend

SKILLS

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

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, FFmpeg, Linux

Game Engines: Godot, Unreal Engine 5, GameMaker, Unity

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/