## Najman Husaini

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#### **EDUCATION**

University of Utah Salt Lake City, UT

Computer Science with Games Emphasis: GPA 3.98/4.0

Aug 2025

Cybersecurity Boot Camp

Online

CompTIA Security+ compliant

Feb 2022 - Aug 2022

## **EXPERIENCE**

# **University of Utah School of Computing**

Salt Lake City, UT

Teaching Assistant

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
- Graded assignments, held in-person office hours, ran labs, proctored exams, provided review sessions, etc.

#### **PROJECTS**

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

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

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 heatmap to help non-profit trash cleanup 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

## **WebRTC Signalling Server** | Rust, tokio, axum, rustls, letsencrypt, EC2

Aug 2023

- Created a WebSocket API that connects WebRTC clients together with a room code that is resistant to abuse
- Designed to be performant, and production ready with TLS using crates.io/crates/hypermangle-core, which is a crate that was developed concurrently for this project to massively simplify the process of creating HTTPS secured APIs **Source:** github.com/manglemix/webrtc-service

#### **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, 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/