

Muhammad Hazimi Yusri

☎ +44 (0) 7825 393685 • ✉ muhammadhazimiyusri@gmail.com • 🌐 muhammadhazimiyusri.uk
in muhammadhazimiyusri • 🏠 Muhammad-Hazimi-Yusri • 📁 git.soton.ac.uk/mhby1g21

Education

University of Southampton

MEng Electrical and Electronics Engineering, First Class Honours

2021–2025

Technical Skills

Languages: Python, C++, C#, Java, JavaScript/HTML/CSS, GDScript, MATLAB

Web/Backend: Next.js, React, Django, Flask, Socket.IO, Node.js, OAuth integration, Google Drive API

Cloud & DevOps: Docker, DevContainers, Cloudflare (CDN/Workers), Git, GitLab CI/CD, Linux, WSL

AI/ML Tools: Ollama, PyQt6, Claude Code, N8N automation, ComfyUI, AI-assisted development

Platforms: GitHub, GitLab, Itch.io deployment, MQTT messaging, Chrome Extensions

Development: Full-stack Web Dev, ML/AI, Game Development, XR Applications, Embedded Systems

Software Engineering Experience

Flask/Python Development

PetBot Social Robot - Web Platform

Jan 2025

- Developed Flask web server with Socket.IO for real-time robot communication
- Integrated Ollama LLM with sentiment analysis and response pipeline
- Created real-time data streaming and control systems via MQTT
- Repository — Demo Video

Unity/C# & PyQt6

VR Application Development & Distribution

Oct 2024–Jan 2025

- Developed and deployed VR application via Itch.io platform (public distribution)
- Redesigned ML pipeline using PyQt6 with comprehensive GUI debugging tools
- Implemented cross-platform VR support and real-time spatial audio
- Project Resources — Published App

University of Southampton

Research Assistant - Software Development

June–Aug 2024

- Refined ML pipeline for 360° image processing using Python
- Implemented VR scene rendering system in Unity with C#
- Created custom audio recording and processing software

Full-Stack Project

Home Media Server & Cloud Storage

Jan 2023–Present

- Implemented Plex Media Server and Immich for modern photo management
- Deployed containerized applications using Docker and DevContainers

Godot 4

Open-Source Stereo Camera Software

Sep 2023–Apr 2024

- Developed complete software stack for stereoscopic camera system
- Created VR viewing application with 6DOF capabilities using modern development tools
- Designed extensible architecture for community contributions
- Published comprehensive documentation on GitHub with CI/CD pipeline

Development Environment & Tools

IDE: VSCode with extensions, DevContainers for consistent environments

Workflow: Git workflows, Docker containerization, Claude Code for AI-assisted development

Additional Projects

Smart Home: HomeAssistantOS integrations with custom automation scripts (Python)

Stereo Camera: Individual 3rd year project: DIY stereoscopic system with video documentation

Portfolio: Technical YouTube Channel with project demonstrations

Additional Information

Work Rights: Full UK work rights (Graduate visa valid until 2027)

Availability: Immediate

Location: Southampton-based, open to relocation or remote work