

ZHEN YAO HENG

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ABOUT ME

I am a passionate Computing Science student with a strong interest in solving complex problems through technology. I have built full-stack applications in collaborative, agile teams using multiple programming languages and technologies. I thrive in fast-paced, team-oriented environments and actively seek high-pressure challenges, competing in multiple 24-hour hackathons, and am currently channelling that passion into ML development for the UGRacing driverless team.

EDUCATION

University of Glasgow Computing Science (MSci)	Glasgow, United Kingdom September 2023 – May 2027
Glasgow International College Foundation in Science and Engineering (SCQF 7 Level Certificate)	Glasgow, United Kingdom September 2022 – June 2023

- Grade: On track to Upper Second Class Honours (2:1)
- Specializing in distributed systems, with a dissertation focusing on blockchain based data management, and secured using proxy re-encryption.

- Grade: Pass with Distinction
- Exceptional results enabled me to progress directly to Year 2 of the Computing Science programme at the University of Glasgow

EXPERIENCE

UGRacing - Formula Student Team Software Developer	Glasgow, United Kingdom October 2025 – Present
Member of the University of Glasgow's Formula Student team, developing the software stack for a fully autonomous electric car which drives around Silverstone each year.	
<ul style="list-style-type: none">• Currently undergoing onboarding on the team's existing codebase, simulation environment and sensor fusion.	

Off-Axis Ticketing 	Glasgow, United Kingdom September 2024 – March 2025
Developed a Ticketmaster-like platform in a 5-member team for a university-industry partnership course with real-world clients.	
<ul style="list-style-type: none">• Engineered a secure user authentication system (login, registration, and password reset).• Spearheaded the integration of a fully featured Artist Support System which streamlines the selection process for supporting artists.• Collaborated on the integration of the Stripe API for secure payment processing and automated ticket delivery via email.• Applied agile methodology (weekly stand-ups and monthly sprints) to fulfil customer requests and ensure continuous delivery.• Technologies: Django Web Framework, HTML, CSS, Python, JavaScript, Stripe API, SQLite, Docker, GitLab CI/CD	

COMPETITIONS

2025 JPMorganChase “Code for Good” Hackathon	Glasgow, United Kingdom
Worked within a 6-member team in a 24-hour coding competition to build a project to assist non-verbal residents from the ground up.	
<ul style="list-style-type: none">• Developed "A Home for Every Voice", detailed in the project section.	
2024 Glasgow University “Do you have the GUTS” Hackathon	Glasgow, United Kingdom
Collaborated in a 5-member team in a fast-paced, 24-hour coding competition to build a project from the ground up.	
<ul style="list-style-type: none">• Developed "Plane Panic", detailed in the project section.	
2024 Glasgow University Code Olympics	Glasgow, United Kingdom
<ul style="list-style-type: none">• Competed in a 24-hour individual coding competition, solving a series of algorithmic challenges under tight time constraints.	

PROJECTS

A Home for Every Voice	
Activity Feedback System - A tablet-first web application for collecting and visualizing resident feedback on care home activities using emojis and Makaton sign language for accessibility made during the 24-hour Code for Good Hackathon.	
<ul style="list-style-type: none">• Built an intuitive emotion selector interface with X-pattern grid layout supporting both emoji and Makaton video modes• Implemented sequential video tutorial system with auto-play, progress tracking, and navigation controls for teaching Makaton signs• Created three custom charts: activity satisfaction bar chart with filters, emotion distribution pie chart, and weekly trend line chart• Technologies: React, Vite, Fastify, PostgreSQL, Mistral AI	
Plane Panic 	
<p>Developed the front-end 3D globe visualization using Three.js, creating an interactive experience where user actions directly influenced on-screen global events. Delivered a fully functional prototype within a 24-hour deadline as part of the University of Glasgow Annual Hackathon.</p> <ul style="list-style-type: none">• Technologies: HTML, CSS, Python, JavaScript, Three.js	

SKILLS

- Programming: Python (Advanced), Java (Advanced), C/C++ (Intermediate), JavaScript (Beginner), Typescript (Beginner)
- Technologies: HTML/CSS, Django Web Framework, Docker, GitLab CI/CD, NumPy, PyTorch, WSL
- Professional: Agile Methodology, Client Communication
- Language: English (Fluent, IELTS 8.0), Chinese (Native), Malay (Working Proficiency)

LEADERSHIP AND TEAMWORK

Silla Korean Restaurant

Glasgow, United Kingdom

Senior Waiter

February 2024 – January 2025

Supervised and coordinated front-of-house staff during high-volume shifts, ensuring smooth team operation.

- Entrusted with managing daily till reconciliation, handling cash, and ensuring the accuracy of all transactions

Jit Sin High School

Penang, Malaysia

Chairman of Prom Night Organizing Committee

March 2021 – March 2022

Led a 20-member committee to plan and execute a formal event for 120+ attendees, managing all logistics, including venue scouting and price negotiation, budget constraints, and work delegation.

- Maintained clear communication channels and delegated responsibilities effectively among committee members.
- Utilized problem-solving skills to address challenges regarding venue logistics and budget constraints, resulting in a smoothly executed event

Jit Sin High School

Penang, Malaysia

Camera and Drone Operator

April 2021 – March 2022

Collaborated as a camera and drone operator for a medium scale graduation music video "[2021 Jit Sin High School Graduation Song - Sunrise M/V](#)" that has achieved 58k+ views on YouTube.

- Collaborated with the Director/DOP to capture desired shots while actively assisting with production management and venue scouting in a fast-paced setting.

EXTRACURRICULAR

University of Glasgow Filmmaking Society

Glasgow, United Kingdom

Camera Operator

September 2025 – Present

- Selected as a Camera Operator for a short film production, collaborating within a team of directors, operators, and producers.
- Responsible for capturing footage for a film set to premiere later in the year.

University of Glasgow Tech Society

Glasgow, United Kingdom

Active member of the Society

September 2022 – Present

- Actively participate in society-run competitions, including the 2025 Glasgow University Annual Hackathon and the 2024 Glasgow University Annual Hackathon.