

# 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

Glasgow, United Kingdom

#### Computing Science (MSci)

September 2023 – May 2027

- 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.

### Glasgow International College

Glasgow, United Kingdom

#### Foundation in Science and Engineering (SCQF 7 Level Certificate)

September 2022 – June 2023

- 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

Glasgow, United Kingdom

#### Software Developer

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.

- Currently undergoing onboarding on the team's existing codebase, simulation environment and sensor fusion.

### Off-Axis Ticketing

Glasgow, United Kingdom

#### Software Developer

September 2024 – March 2025

Developed a Ticketmaster-like platform in a 5-member team for a university-industry partnership course with real-world clients.

- 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.

- 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.

- Developed “Plane Panic”, detailed in the project section.

### 2024 Glasgow University Code Olympics

Glasgow, United Kingdom

- 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.

- 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

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.

- Technologies: HTML, CSS, Python, JavaScript, Three.js

## SKILLS

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- 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

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### Silla Korean Restaurant Senior Waiter

Glasgow, United Kingdom  
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

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### University of Glasgow Filmmaking Society Camera Operator

Glasgow, United Kingdom  
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 Active member of the Society

Glasgow, United Kingdom  
September 2022 – Present

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