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Harry Ellis

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Merseyside Based

Personal statement

A high-achieving and driven computing and technology professional, demonstrated through a year of experience working as a Python AI developer and the attainment of a 1st class honours computer science degree at Edge Hill University. Seeking opportunities to create innovative systems, particularly in software engineering, data analysis, artificial intelligence, and other emerging technologies, to grow technically and professionally

Demonstrated keen ability to work as a part of a specialist AI team, reporting to the AI team lead within TVS SCS while remaining self-sufficient. Working across a wide range of emerging technologies to aid TVS SCS remain at the forefront of innovation in transport and logistics. Contributed to projects initiated by other team members as well as self-driven work projects concurrently, with a proven ability to quickly and independently research, prototype, and implement solutions to solve business problems and improve current processes in response to evolving requirements.

Technical Skills

- Programming: Proficient in Python; using libraries such as PyTorch, OpenCV, SAM2, DINO, Flask, YOLO, Transformers etc.
- Working knowledge of Java, C#, HTML/CSS, and GDScript.
- Engine Development: Created games using Unity (C#) and Godot (GDScript), with a published game to the Google Play Store. These topics were self-taught during free time. I then used these skills to create a training simulator in VR, and an AI part identification app.
- Operating Systems: Proficient in Windows, Linux, and Android.
- Data Analysis: Knowledge of SQL Databases and experience with data analysis tools such as SPSS.
- DevOps & Tools: Proficient with Docker, Git, and Azure DevOps.

Employment History

AI Developer **TVS Supply Chain Solutions** **June 2024 – June 2025**

Developing AI-driven solutions to enhance logistics and transport operations. Responsibilities include designing and implementing AI models, computer vision systems, and developing automation tools to enhance operational efficiency.

Projects:

- Computer Vision Damage Detection: Created a system that detects the ways in which a smart meter is damaged using a multi-camera imaging box to capture images and train an AI model. The model generates real-time predictions returned to the warehouse system using an API.
- AR4 Robotic Arm: Collaborated with others on the integration of a robotic arm for precise manipulation tasks utilising AI-driven part identification and ROS2.
- Part Identification App: Developed an Android app in Godot connected to a custom API that transmits image data to a vision model that labels images with a part identification number. The prediction and confidence are then sent back to the user's device.
- LLM Enhancement: Upgraded the capabilities of the in-house LLM chatbot by ingesting SQL schemas into the Retrieval-Augmented Generation (RAG) system.

Digital Forensic Assistant **Lancashire Constabulary** **12 Days Across 3 Months**

Aided and shadowed digital forensic technicians with the secure extraction of storage devices, and digital forensic investigators with the writing of reports and summaries of active cases.

Auxiliary Technician **Rainhill High School** **July 2021 – August 2021**

Aided in the successful restoration of a school's network following a ransomware attack. This involved removing traces of malware on the storage of numerous kinds of devices and reinstalling operating systems and required software.

Education

Edge Hill University (Degree) *(2021 – 2024)*
BSc (Hons) Computer Science – 1st Class Honours (1:1)

Rainhill Sixth Form Centre (A-Levels) *(2019 – 2021)*
Computer Science – A, Physics – B, Maths – C

Other Achievements, Qualifications, and Affiliations

- Edge Hill University Academic Achievement Award – Highest average mark in the computer science department
- Microsoft Certified: Security, Compliance, and Identity Fundamentals
- Former member of the cybersecurity and research club at Edge Hill University
- Former member of the RAF Cadets