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Personal Profile

I am a conscientious software engineer. From programming a neural network from the ground-up to sending serial commands to a 1000 Bar pressure controller, I approach each task as a chance to learn and achieve.

Work experience

ISIS Neutron and Muon – Oxford – Paid software engineer – 12 months – 2023

- Designed and implemented software solutions that facilitate precise control, data acquisition, and analysis for a wide range of experiments.
- Technology Stack: C++ (drivers for devices), Python (test frameworks), Java (GUI squish testing), Gherkin (GUI squish testing), particle accelerator specific languages (I/O controllers), Nagios and Jenkins checks, NextJS, Tailwind CSS, WebSocket (socket.io), NestJS
- Network routing, plugging in Ethernet cables, connecting switches together, creating private and public networks, connecting serial cables (RS-232 etc).
- Co-lead a project for converting a legacy web server to a more modern framework.
- Communicated with scientists and then worked with them to develop the software solutions.
- Provided operational support to users and tested new features with users in a DevOps fashion.

Coherent Software – Lancaster – Paid software engineer intern – Summer - 2022.

- Gained hands-on experience with Django in a professional environment.
- Learnt ReactJS whilst actively contributing to real-world projects.
- First exposure to the Waterfall software lifecycle.
- Delivered weekly presentations on project progress to the company owner and team during meetings.

Education

Loughborough University, BSc (Hons) Computer Science (2021 – 2025) *Grade: 76% (First class)*

Relevant Modules: Mathematics for Computer Science; Logic for Computer Science; Functional Programming; Computer Systems; Web Programming; Object Oriented Programming; Algorithm efficiency; Embedded Systems; Databases; Operating Systems and Networks 1&2; Advanced Networking; Project Management; Formal Languages and Theory of Computation; AI Methods; Formal Methods; Computer Graphics; Mobile Application Development; Robotics; Team projects 1&2; Cloud Computing; Final Year Project in Go (cybersecurity data ingest + aggregate).

Lancaster Royal Grammar School (2019-2021) - A-Levels: Physics (A), Computer Science (A), Mathematics (B).

Achievements

Best Computer Science result at GCSE – 2019

Duke of Edinburgh - Bronze (2017) + Silver (2018) + Gold – 2019.

Key skills

Python, SQL, Java, C++, Bash, Jenkins, Nagios, HTML, JavaScript, CSS, Git, Google Cloud, PHP, Django, ReactJS, NestJS, Docker, Linux distributions such as Ubuntu and Arch Linux.

Positions of responsibility

Course representative for Computer Science BSc cohort (2022), peer mentor to GCSE students in mathematics (2020), member of Fylde Youth Council (2019), volunteer at a Hospice Charity in St Annes (2018).

Personal details

British and Irish nationality. Full UK drivers license.