

About me

An engineer with a great enthusiasm towards data science and Artificial Intelligence. I post regular workout and nutrition contents. Am quite fervent about blockchain, trading and investment.

Experience

Robot Engineer

Nov 2023 - Mar 2024

Leeds, UK

Robot fight league

- Led a team to create a data science web app using Python Django, and Matlab for data analysis
- Supervised UI/UX designers on Figma designs whilst managing the developers

Frontend Developer

Aug 2023 - Dec 2023

Remote

Velz Travel

- Led a team to create a data science web app using Python Django, and Matlab for data analysis
- Supervised UI/UX designers on Figma designs whilst managing the developers
- Won multiple awards for the final delivery

Software Engineer (Placement Year)

July 2022 - July 2023

London UK

Johnson Controls R&D department (JCI)

- Administered legacy C/C++ projects whilst fixing bugs and adding new features
- Developed C# .NET library on serial data analysis generation for embedded system programs
- Designing analytics web dashboard with React JS and using TensorFlow for predictive AI
- Lead 10 interns to create a full business pitch and ended up placing 2nd amongst 18 competitors

Software Developer Freelance

Nov 2021 - Feb 2022

Leeds UK

Paperound

- Developed a book library management system in C
- Designed Python NumPy, SciPy and Scikit-learn scripts for neural networks and data visualization
- Programmed PowerShell and bash automation scripts for system administration

IT administrator

Jun 2020 - Mar 2021

Amman Jordan

Mesopotamia Group

- Collaborated with a team to build a local file server on Ubuntu 18.04 LTS built using Apache and Nextcloud
- Administered the system using Bash, PowerShell and Nmap with SSH tunneling and port forwarding
- Engineered a complex version using a raspberry pie, network interface card and attached storage.

Education

BEng (Hons) in Electronics and Computer

Sept 2019 - June 2024

First-Class Honors

University of Leeds (UoL)

- Embedded systems, Microprocessors, FPGA, Circuit Analysis, Signal processing, Networking, Compiler design
- Cloud and Parallel computing, Secure and Distributed systems, Cybersecurity, Software Engineering, Research

Skills

Technical:

C C++ Java C# HTML5 CSS JavaScript Dart Python Matlab SQL Bash

Linux Docker Azure AWS Firebase Jira Git SQLite MongoDB .NET WPF React









Next.js Tailwind CSS Material UI Qt Flutter Django Express.js NumPy Matplotlib SciPy

TensorFlow Pandas Scikit-learn CMake Node.js Arm Mbed Arm Keil Arduino AutoCAD





Soft:

Hard-working Motivated Deterministic Leadership Communication Problem solver


Projects

JPS	 Sep 2022 - Jul 2023	 JCI
<ul style="list-style-type: none">• Re-designed a legacy CLI project to a GUI with C# .NET WPF using MVVM and multithreaded design• Invented an object-oriented scripting language with a custom compiler and runtime memory access.• Integrated SQLite database, Excel I/O features, analysis tools and serial communication protocols• Communicated with engineers to get a feedback loop on the app's design and features		
MCP	 Apr 2021 - Ongoing	 Personal
<ul style="list-style-type: none">• Created a cross-platform math library for C++• Engineered with DevOps using Travis-CI, testing with GoogleTest and building with Docker Cmake• Incorporated numerical algorithms revolving around matrix algebra, statistics and machine learning.• Documented using Doxygen and MkDocs		
NotePad	 Nov 2021 - Ongoing	 Personal
<ul style="list-style-type: none">• Programmed a cross-platform note app with Flutter• Established backend using cloud authentication services with Firebase and storage with SQL CRUD• Using the BLoC pattern for state management and the Provider package for dependency injection• Used KerasRL library for reinforcement learning with human feedback to predict user's next note		
Home Automation Embedded System	 Jan 2021 - May 2021	 UoL
<ul style="list-style-type: none">• Engineered circuits for I/O functionality using data sensors, potentiometers, buttons and resistors.• Programmed control system for home appliances such as temperature, air conditioning and lighting• Developed mini-OS using LCD display and joystick• Operated on STM32 board, C++ on an ARM MCU		

Professional Courses

Data Analysis with Python	 Oct 2021
<ul style="list-style-type: none">• Develop Python code for cleaning and preparing data for analysis• Perform exploratory data analysis and analytical techniques to datasets using Pandas, Numpy and Scipy• Manipulate data using dataframes, understand data distribution, perform correlation and create data pipelines• Build and evaluate regression models using machine learning scikit-learn for prediction and decision making	
Databases and SQL for Data Science with Python	 Sept 2021
<ul style="list-style-type: none">• Analyze data within a relational database on the cloud using IBM DB2, SQL, Python• Construct SQL CRUD operations and compose views, transactions, stored procedures and joins.	
Python for Data Science, AI & Development	 Aug 2021
<ul style="list-style-type: none">• Demonstrate proficiency in using Python libraries such as Pandas, Numpy, and Beautiful Soup• Access web data using APIs and web scraping from Python in Jupyter Notebooks.	
Data Science Methodology	 Aug 2021
<ul style="list-style-type: none">• Apply the six stages in the Cross-Industry Process for Data Mining (CRISP-DM) to analyze a case study.• Evaluate which analytic model is appropriate among predictive, descriptive, and classification models used.	

Extracurricular

Event Coordinator Volunteer IEE RAS ICRA	 Nov 2021 – Feb 2022  London, UK
Web Developer hackathon Royal Hackaway v6	 Nov 2021 – Feb 2022  London, UK
Game Developer hackathon Pygames hackathon Microsoft	 Nov 2021 – Feb 2022  Remote
AI Agent hackathon Lablab	 Nov 2021 – Feb 2022  Remote