Jaza Syed

Software Developer + Machine Learning Researcher

Summary

Software engineer with experience in industrial machine learning and web development and a strong scientific and mathematical background.

Education

Sept. 2014
- June 2018

King's College, University of Cambridge
BA (Hons) + MEng Engineering [Merit]
- Years 1 and 2: Mechanical, structural, materials and electronic engineering
- Years 3 and 4: Modules covering deep learning, signal processing, computer architecture, computer graphics, computer vision, systems and control, computational neuroscience, synthetic biology
- Master's thesis: Generation via procedural and neural methods of synthetic training data for a neural network to segment 3D fluorescence microscopy images of neurons

Experience

May 2023-
present

Applications Software Engineer - Vicon - Oxford (Hybrid)
Worked on user-facing tools for motion capture systems, including an Unreal Engine plugin for streaming motion capture data. Implemented UIs in QML backed with C++.

Oct 2022-
April 2023

Software Engineer - Emotech - Remote
Emotech provide machine learning services for speech processing and animation. I worked close collaboration with ML researchers to bring new algorithms to production in Rust microservices.

June 2020 -
May 2022

Software Engineer - Ito World - Remote
Worked on the backend for a web application for transit data management and on import and export pipelines for schedules. The backend server was primarily implemented in C++ (built with CMake) and was backed with Postgres and MongoDB. I was part of a 100% remote team.

Aug. 2018
- Dec. 2019

Deep Learning R&D Engineer - Asaphus Vision GmbH - Berlin, DE
Implemented novel CNN-based algorithms for eye tracking, taking responsibility for all aspects of development from data collection to model deployment. Python was used for prototyping and model training and the algorithm was deployed as part of a C++ library.
- Improved network performance (whilst maintaining 30 FPS on-device inference on an embedded processor) to standard required for deployment in series production vehicles

Skills   Python, C++(17), Rust, CMake, Unreal Engine, Qt/QML, SQL, Docker, Git

Misc   UK Citizen / Indian OCI card - no work permit required in Europe or India
Full UK Driving Licence (Cat B)