

Qasim Nawaz

Software Developer

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Skills

Proficient in: Java | Python | JavaScript | PHP

Experience in: C/C++ | SQL | Swift | OCaml | MATLAB | HTML/CSS | MIPS Assembly

Technologies: Git | Robotics | Agile | PyTorch | Keras | TensorFlow | UNIX | Docker | AWS

Education

The University of Birmingham (2017 - 2020)

Birmingham, UK

- BSc Computer Science (Grade Achieved: Upper Second-Class with Honours)
- A degree with a focus on Artificial Intelligence, Mathematics, Robotics, Data Analytics, High-Level and Low-Level Programming as applied to theoretical and practical Computer Science.

King Edward VI Aston Grammar School (2014 - 2017)

Birmingham, UK

- A-Levels in Chemistry, Biology and Mathematics, with an AS-Level in Psychology.

Saltley School and Specialist Science College (2009 - 2014)

Birmingham, UK

- 11 GCSEs with 5A*/As including English Language (B), Mathematics (A) and Triple Science (A*AA).

Experience

stickee Technology (Magpie Technology) (July 2020 - Present)

Solihull, UK

Software Developer

- Developing core technology for Magpie; the leading market intelligence engine, delivering real-time data to many of the world's biggest telecommunication, retailer and smartphone brands.
- Currently powering Magpie using PHP, and some JavaScript to build its back-end infrastructure and web-scraping technologies.
- Performing data analysis and verification to ensure that clients receive data that is the most accurate and reliable at any given time.
- Made various speed improvements to the system that reduced processing time by as much as 50% and various overhead server costs by as much as 20%.
- Led a small project team that was able to deliver on our deadline in under 75% of the allocated estimated timeframe.
- Worked on the development of a new proprietary data collection system that led the expansion of the business into a new domain, doubling our profits.

Capgemini (July 2018 - September 2018)

Telford, UK

Test Analyst | Test & Release Service

- Improved quality of the codebase by conducting E2E testing on numerous modules, exposing bugs earlier in the development cycle.
- Improved productivity by up to 25%, by working on revamping the automation testing system.

Projects

Sentiment Analysis on Tweets Using Document Embeddings

Python | Keras | Gensim | NLTK | Pandas | NumPy | TensorFlow

- This is a project (accompanied with a paper) which is an investigation into the various methods I could use to classify tweets by their sentiment.
- I trained word vector-based, and paragraph vector-based models on a dataset consisting of 1.6 million tweets, in conjunction with various classifiers in order to find the best performing method in which to obtain the calculated sentiment of unseen tweets.
- I designed and implemented all the various document representations, as well as the classifiers which included Logistic Regression, Cosine Similarity, Linear Discriminant Analysis, and multiple different forms of Neural Networks.
- In the best case, I obtained an accuracy of 79.6%, using a carefully engineered document vector, coupled with a Neural Network classifier.