Qasim Nawaz

Software Engineer

itsqasimnawaz@gmail.com | qnawaz | qxsim

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

Magpie Technology (stickee) (July 2020 - Present) *Solihull, UK*

Graduate 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 using PHP, AWS and Docker to build the back-end infrastructure and web-scraping technology that Magpie relies on.
- Performing Data Analysis and Verification to ensure that clients receive data is the most accurate and reliable at any given time.

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 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 my final-year project (dissertation) which was 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 very specific document vector, coupled with a Neural Network classifier.

QASEngine

Java | JavaFX

- I designed and built a fully-featured Game Rendering Engine from scratch using Java (JavaFX).
- It has been built to handle complex animations, collision detection and multiple on-screen animated sprites, reduce input lag, and do all of this while maintaining 60 frames-per-second.