

Robert Clarke

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Employment

Software Development Engineer & Tester at WanDisco (September 2020 - May 2023)

In this role I was responsible for developing new features for the LiveData Migrator software, as well as developing system tests and continuous integration tools. LiveData Migrator is a tool which migrates data between Hadoop and cloud platforms such as Azure, AWS, Google Cloud, IBM Cos, and Alibaba cloud. I use Java and Python day to day, and the team is organised according to Scrum and Agile principles.

Education

MSc. Mathematics and Computer Science (1st Class Hons.)
University of Leeds (2019-2020)

BSc. Mathematics (1st Class Hons.)
Queens University, Belfast (2016 - 2019)

Queens University Belfast School of Mathematics & Physics Distinction Prize

Achievements & Projects

- Won the Liberty IT TDD Programming Competition 2017 (Team Section)
- Accepted to exhibit in the BT Young Scientist & Technology Exhibition with my entirely original computer physics simulation project
- Placed well in the finals of the All Ireland Programming Olympiad 2016.
- I have competed in the Ludum Dare 48-hour game jam 14 times, often working in a team to complete a game (required to be programmed from scratch) while working to a strict deadline. Several of these games are available in my portfolio linked above.

Languages & Technologies

- Proficient with C, C++, Python, Javascript, C#, Java and Wolfram Language.
- Linux - I have been running Linux on my personal computers since 2013. In my current role I use Linux both on my dev machine and on remote Hadoop clusters used for testing
- Highly capable with the Azure, Google Cloud and AWS cloud platforms and their respective APIs, having become intimately familiar with them during my time at WANDisco
- Low-level optimisation such as Multi-threading and SIMD (Intel SSE and AVX). Using performance profiling to target optimisation towards bottlenecks.
- Strong knowledge of commonly-used algorithms and data structures, and algorithmic analysis.
- Object-Oriented and functional paradigms, scrum, agile and test-driven development.
- Strong knowledge of machine learning and artificial intelligence from my masters study.
- Proficient with the following tools and libraries: SDL, SFML, OpenMP, numPy, PyTorch, Keras, Emscripten / WebAssembly, Git, Bash scripting and GNU Make / CMake, Gradle and Jenkins