

SOFTWARE ENGINEER · TECHNICAL ANAL

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Education

University of Manchester

Oakwood Park Grammar School

Manchester UK

MENG WITH INDUSTRIAL EXPERIENCE COMPUTER SCIENCE

1st Class degree classification achieved throughout degree.

Sep. 2013 - Jun. 2018 (PRESENT)

PHYSICS - A, COMPUTER SCIENCE - A, MATHS - B, EXTENDED PROJECT QUALIFICATION - B

Maidstone, UK

Sep. 2011 - Jun. 2013

Experience

Credit Suisse

London, UK

SOFTWARE ENGINEERING - CONTRACTOR, CREDIT RISK - C# 4.7

Jun. 2017 - Sep. 2017 • Designed and developed a WCF C# 4.7 microservice based valuation distribution engine for accelerating End of Day credit analysis by

- several orders of magnitude.
- Developed C#/Python/SQL automation tools for informing support staff to resolve credit risk valuation failures in a timely manner.

Credit Suisse London, UK

TECHNICAL ANALYST - APPLICATION DEVELOPER, CREDIT RISK - C# 4.6, Python 2.7, Splunk

- Jun. 2016 Jun. 2017
- · Created Splunk based reports, dashboards and alerts; simplifying maintenance and highlighting potential issues automatically. Categorising errors into buckets using machines learning techniques to discover the resolution.
- Engineered a system in Python to utilise a firm-wide data lake, using anomaly detection with regression based techniques to determine high risk scheduled runs across the bank.
- Aided in the founding of the internal Machine Learning Affinity Group for internal consulting, reducing costs of programmes significantly across all departments.
- Maintained and developed a C#/SQL Risk Management System to generate position level risk valuation for over 200+ products using scenario and analytic based approaches. Used by front office traders, product control, and regulators.
- Participant in a charity hackathon, where we developed a full stack auction website using Mongo databases, Express framework, AngularJS, and NodeJS

Credit Suisse London UK

SPRING INSIGHT WEEK

Apr. 2015

Networked with all functions of the firm to gain understanding of the firms architecture and business processes.

Extracurricular

University of Manchester Student Coordinator

Jun. 2017 - Sep. 2018 Present

Innovated new processes to facilitate second year student development, focusing on employability and professional life.

STUDENTHACK IV VOLUNTEER COORDINATOR

March 2016

November 2015

Administered a team of 30 volunteers to deliver logistic needs over a 48 hour period; managing various operations and scheduling.

GREATUNIHACK 2015 VOLUNTEER

Operated as a member of a 20 person team to handle logistics and help students where needed; advising on technical and personal matters.

STAFF STUDENT COMMITTEE STUDENT REPRESENTATIVE

COMPUTER SCIENCE SOCIETY CO-CHAIR

Oct. 2015 - Jun. 2018 Present

Represented the body of students across all years to provide continuous improvement to the programme.

Sep. 2014 - Jun. 2016

Chaired meetings and facilitated the need of the team to provide industry and social events to the school of computer science.

Developing their inter-personnel skills and improving business acumen.

University of Manchester PASS Leader Accommodated first years and their needs, providing technical skills and experience to assist in their learning. Sep. 2014 - Jun. 2016

Neural .Net

C# library for compiling computational graphs into neural networks with arbitrary loss functions and learning algorithms.

Android DevOps Service

Java Android application which allows connection to machines running a Java-based service. Allowing the user to run a collection customisable commands with cryptographic authentication.

Monte Carlo Chess Agent

C# agent which uses Monte Carlo techniques to solve a chess game against an opponent.

Animal Agent Behaviour Simulator

2D topological simulation written in Java trained Hidden Markov Models/Kalman Filters for simulating animal movement and states.

C++ OpenGl Planetarium

C++/OpenGL physics based planetarium with euclidean physics simulation and collision detection.

JOSHUALANGIEY · RÉSUMÉ MAY 22, 2018