

Professional Profile

Computer science graduate experienced in software development and data science. I offer a combination of excellent technical and research skills with outstanding communication and interpersonal skills. I am a self-starter with a proven ability to work independently and to lead and collaborate on group-based projects that get results. Hard-working and motivated, alongside my degrees and working at the National Railway Museum in York I have a wide range of theatrical experience, including directing, producing, and performing in staged and filmed productions in amateur and commercial contexts.

Core skills

- Highly skilled programmer, with experience in the following languages:
 - Python
 - SQL
 - Scheme
 - EOL
 - Java
 - Haskell
 - Prolog
 - Git
 - Extremely strong:
 - Scientific research ability
 - Written and oral communication skills
 - Practical ability across a wide range of project development methodologies
 - Presentation skills, including technical information to both experts and laymen
 - Experienced in:
 - The development of machine learning solutions for a wide range of practical problems
 - Using a wide range of team management tools and software
 - Engaging in software development in a multi-programmer version-controlled environment
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Education and Qualifications

With an MSc and BEng in Advanced Computer Science and Computer Science respectively, I have a wide breadth of technical knowledge across the field of modern computer science, with expertise in software development and machine learning to solve a variety of practical problems, including those with a basis in computer vision.

MSc – Advanced Computer Science – University of York (2021 – 2022)

Notable Modules: Cryptography Theory & Application; Model-Driven Engineering; User Centred Design for Interactive Technologies; Forensic Analysis of Cyber Incidents; Rigour in Secure System Development & Assessment

Thesis: *“Abnormal motion detection with trajectory and deep learning”* A research project into the development of an autoencoder in Python to recognise abnormal motions in trajectories from the inD dataset

BEng – Computer Science – University of York (2018 – 2021)

Notable modules: Computer Vision; Vision and Graphics; Introduction to Neural Networks; Fundamentals of Machine Learning; Evolutionary Computation; Artificial Intelligence

Dissertation: *“Human Action Recognition from video sequences using Artificial Neural Networks”* A research project into the development of a neural network in Python to classify video sequences from the UFC-101 dataset

4 A-Levels & 11 GCSE’s – Highgate Wood School (2013 – 2018)

A-Levels: Mathematics; Physics; Computer Science; Drama (A, A, B, B)

Employment history

Customer Service Assistant, Compass Group – @The National Railway Museum, York (2022)

Worked as part of a large team to provide customers with high quality and friendly service. In this role I worked to professional guidelines, responded to customer queries and issues, as well as working to supervise other staff and temporary agency hires.

Additional interests and experience

Theatre

I have been performing, both as an amateur and professional, for many years. I have performed at such venues as the York Theatre Royal, The Soho Theatre, and the National Theatre, latter of which I was awarded a Jack Petchey award for the enrichment of my local area. These experiences have made me very comfortable in performing and presenting in front of large groups.

I have also undertaken production roles, including Director and Producer. In my directorial experience I brought together casts, provided critical feedback on performance in high energy environments, as well as co-ordinating with the rest of the production team ensure a high-quality production.

In my production work I have been the head of casts of 40+ performers, ran social media platforms, and budgeted for numerous productions. During the 2020/21 lockdowns was the producer for a short film that was remotely filmed across 3 countries and took part in an online theatre festival. This production received numerous positive reviews; some of which can be found [here](#), [here](#) & [here](#).

Society Treasurer

During my time at university, I was an active member of several societies and served as Treasurer for the Drama Society – one of the oldest and largest on campus – for more than a year. In this role I managed the budget for multiple productions and project, liaised with several external organisations and worked with other members of committee to manage the direction of the society throughout the COVID lockdowns.