

OVERVIEW

Mathematics undergraduate at UCL seeking an internship opportunity in Data Analytics. Equipped with practical experience in diverse machine learning projects. Eager to contribute to a dynamic team, acquire pivotal expertise, and pave the way for a career in Data Science.

EDUCATION

UNIVERSITY COLLEGE LONDON

MSCI MATHEMATICS

London
2021 - 2025

- Year 2 Grade: 1:1
- Year 1 Grade: 1:1

BRIGHTON HOVE & SUSSEX SIXTH FORM COLLEGE (BHASVIC)

A-Levels: A, A*, A (Maths, Further Maths, Physics)*

Brighton and Hove
2017 - 2019

- National Mathematical Olympiad qualification
- UK maths challenge gold award - 2019
- UK maths challenge gold award - 2018

DOROTHY STRINGER SCHOOL

*GCSEs: 3 A**s*, 4 A*s*, 4 B*s**

Brighton
2012 - 2017

EXPERIENCE

MILK BEACH

Bartender/Barista

London
June 2023 - Present

- Proposed pre-shift briefings to promote specials and wines, enhancing sales and customer experience.

TUTORFUL

Mathematics Tutor

London
April 2021 - March 2023

- A-level and GCSE mathematics tutor, teaching in person and online on a website called "Tutorful". Received over 15 positive (5-star) reviews on the effectiveness of teaching method, patience and communication.

QA - PROJECT LINK: [HTTPS://GITHUB.COM/ALBERTATKINSON/SFIA3](https://github.com/albertatkinson/sfia3)

Software Intern

Brighton and Hove
September 2020 - March 2021

- Collaborated in a team of 5 software engineers to build a ticketing application: Responsible for coding backend leveraging a micro-services infrastructure to improve efficiency of load balancing and connected each service on application to front end via an API with NGINX. risk assessments and agile methodologies to optimise project workflow.
- Developed solo projects with Docker, JavaScript, React, MySQL etc. to learn about each stage of web development.
- Used cloud technologies such as Terraform and Ansible to deploy applications into cloud environments on AWS.
- Automatically scaled computing power of servers, with EC2 auto-scaling and Elastic Load Balancer, based on demand.

DRAMA QUEENS

Teacher/Director

Brighton and Hove
October 2019 - January 2020

- Co-directed a drama production with over 20 cast members. Researched a suitable local theatre for students to perform at.

MACHINE LEARNING PROJECTS

- Predictive analytics for milling machines: Utilised Python and diverse algorithms (XGBoost, Decision Tree etc.) on a Kaggle dataset to forecast milling machine failures based on temperature, tool wear and other variables. Attained strong accuracy.
- Neural Network Molecular Structure Prediction: Collaborating with a Chemist from Durham University to create an AI tool for rapid chemical structure prediction with neural networks. Co-operated with Wiley Science Solutions to access 2 million distinct spectral graphs to be used as feature data. Leveraging AWS SageMaker and Notion to streamline the project with task boards and cloud computing.

TECHNICAL SKILLS

- Several years of programming experience with the following tools: Python, JavaScript, MySQL, AWS, Azure, Java.
- Experience with end-to-end data science processes, encompassing data exploration, model development and evaluation.
- Deployed applications into cloud environments on Amazon Web Services and
- Familiar with agile methodology and similar work practices which emphasise ongoing communication in a team.

LEADERSHIP EXPERIENCE

- Led a team of two directors and a producer in production of "Rhapsody," a large-scale live music show featuring 100+ musicians at UCL's Bloomsbury Theatre. Fostered an inclusive and supportive environment, uniting multiple societies to showcase talents and build a strong sense of community.
- Planned, marketed and executed numerous events for 200+ members of UCL Live Music Society as Head Tech Officer.

INTERESTS

- Versatile performer in numerous lead roles across theatre and film productions (Member of National Youth Theatre). Found immense fulfilment in camaraderie within a close-knit cast with diverse age groups and backgrounds.
- Won the 'President's Cup for Best Actor' for a lead role in a production of 'Guys and Dolls'
- Regularly solve coding maths problems on website Project Euler. (recently coded a sudoku solver).
- Regularly play guitar, piano, football, tennis, chess and work out at the gym.