

LIAM BOYD

Mathematics and Computer Science (MSci) Student at Durham University

@ liamboyd19@gmail.com
github.com/Liambo

07518 065322
www.linkedin.com/in/liambo

Brentwood, Essex, United Kingdom

liambo.github.io

EDUCATION

Durham University MSci Mathematics and Computer Science

Oct 2018 – June 2022

Durham City, Durham

Achieved a 2:1 with a focus on machine learning modules.

Notable modules: Blockchain & Cryptocurrencies, Cryptography & Codes, Cyber Security, Decision Theory, Deep Learning & Reinforcement Learning, Natural Language Processing, Recommender Systems, Stochastic Processes, Virtual and Augmented Reality.

Masters Thesis: Deep Learning Using Recurrent VAE-GAN Structures for Automatic Music Generation and Genre Transfer.

King's College London Mathematics School A levels

Sept 2016 – June 2018

Waterloo, London

A Levels: Maths A*, Further Maths A*, Physics A*

AS Levels: Computer Science A

Accepted into a highly selective and top performing sixth-form college, attending weekly problems classes with PhD students and taking on extra mathematics modules in addition to completing A Levels. Also achieved Gold in UKMT Senior Mathematics Challenge and won the Goldman Sachs prize at 2017 HackKings Hackathon.

St. Martins Secondary School GCSEs

Sept 2011 – June 2016

Brentwood, Essex

12 GCSEs A* - B.

EXPERIENCE

Academic Tutor Durham University

October 2021 – June 2022

Durham City, Durham

Lead four groups of 20+ first year computer scientists on the Algorithms & Data Structures module, teaching weekly 2-hour problems classes and answering course related questions. Responsibilities also included marking student work and providing assistance with Python programming, improving my leadership and communication skills and building my confidence speaking in front of and leading large groups.

Bar Team Member The Merchant

July 2019 – October 2021

Brentwood, Essex

Worked on the bar team handling customer orders and payments, preparing drinks and snacks and ensuring the bar and restaurant area remained a clean, safe and welcoming environment, building my teamwork skills and communication skills when negotiating with difficult customers.

Student Ambassador King's College London Mathematics School

July 2018

Waterloo, London

Supported teachers in post-GCSE maths summer classes, teaching in small groups and ensuring student safety and wellbeing while giving prospective students an insight into mathematics at A-level and beyond, helping me gain an insight into good teaching and communication skills.

LANGUAGES

Python



8 years programming experience using python for the majority of projects, including working with numerous libraries such as Pytorch, TensorFlow, Scikit-learn, Pandas, Numpy, Matplotlib, OpenCV, NetworkX and more.

C



3 years programming experience having used it in projects at university, including developing a text parser for compiler design and recreating Conway's Game of Life.

Java



3 years programming experience using it as part of university projects including to produce and manage databases for website and application design in conjunction with SQL, alongside using it for game development in Unity and more generally for algorithm design.

JavaScript, HTML & CSS



4 years programming experience using HTML & CSS to create websites, including development with React. Have additionally used JavaScript as part of numerous projects throughout university.

SOFTWARE & TOOLS

Microsoft Office

Photoshop

LaTeX

Git & Github

SSH

SQL

Unity

Windows

MacOS

Ubuntu Linux

SKILLS & INTERESTS

- Attended numerous hackathons: YRS Festival of Code 2013-15, KCL HackKings 2016-17 and DurHack 2018-19, improving teamworking and programming skills.
- Interest in drama, having performed in student productions including Mamma Mia, Grease and The Tempest, improving confidence and self-esteem.
- Competed in college-level cricket, hockey & lacrosse teams during university, building teamworking skills.
- Interest in community outreach, having volunteered to lead after-school sports classes at local schools during University.
- Interest in guitar playing, particularly 1980s punk and 1990s alternative rock.