

# Toby Chen

Website | Email | 07714 387919 | GitHub | LinkedIn

## EDUCATION

### BSc Hons in Mathematics | 1st (Expected) | Queen Mary University of London

Pure & Computational Mathematics. Notable modules include *Numerical Programming in C and C++*, *Partial Differential Equations* and *Probability & Statistics*.

London

09/2023 – 06/2026

### CertHE in Mathematics & Physics | 1st (Achieved) | Heriot-Watt University

Advanced level mathematics and physics courses. Notable modules include *Programming in Java* and *Academic Presentations & Seminars*.

Edinburgh

09/2022 – 06/2023

### A levels in Maths, Comp Sci & Biology & Biology | C, B, B | Brockenhurst College

A-levels in Mathematics, Computer Science & Biology. Notable experience includes *GCSE Chinese*.

Brockenhurst

09/2020 – 06/2022

## EXPERIENCE

### Fullstack Developer

Built a responsive web application with React and Vite to display my work in an RPG style pseudo-game.

Personal Project

2025

### Algorithmic Trading Developer

Python trading app using technical indicators and price predictor algorithms like SARIMAX.

Personal Project

2024

### Data Engineer

Work as a data engineer focusing on data preprocessing and annotation for machine learning models. Mainly involved with agents, programming models.

Data Annotation

2023 – Present

### Maths Teaching Assistant (Work Experience)

Supported teachers during lessons and helped students with their maths work. Tutor maths for A levels and MATs.

Cantell School

2024

### International Cyber Expo

Attended a cybersecurity expo in London to network with industry professionals and learn about the latest technologies.

Nineteen Group

2025

### Immersive Labs CTFs

Completed 5 level 8 CTFs. Worked on many different CTFs Cyber Security challenges.

Immersive Labs

2022

### AWS Summit

Attended the summit to learn about cloud computing trends and services related to AWS.

Amazon Web Services

2024

## SKILLS & INTERESTS

### Programming

Lifetime programmer. Comfortable with multiple languages and paradigms. Understand OOP, functional and procedural programming.

Python, C#, C++, Java

### Web Development

Developed web apps using modern frameworks and tools like React.

TypeScript, React, Vite, Node.js

### Linux & DevOps

Daily drive Arch Linux. Have worked with containerization, version control and cloud services through personal projects and Data Annotation.

Arch, Bash, Docker, Git, AWS

### Algorithmic Trading

Built personal trading systems with risk management strategies.

MQL5, SARIMAX, Statistics

### Pentesting & Security

Experience in pentesting through various different CTFs and bug bounties. Understand common vulnerabilities and security practices.

Burp suite, CSRF, OpenSSL

### Politics & Finance

Follow global politics and financial markets. Regularly read news and listen to related podcasts like *The Rest is Politics*.

yFinance, Podcasts, Financial Times

### Sports

National level kickboxer. Play rugby at university and train in MMA, Muay Thai and BJJ. Multiple time sport scholar at college and university.

Teamwork, Leadership, Confidence