Toby Chen

Website | Email | 07714 387919 | GitHub | LinkedIn

EDUCATION

BSc Hons in Mathematics | 1st (Expected) | Queen Mary University of London
London
09/2023 – 06/2026

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

CertHE in Mathematics & Physics | 1st (Achieved) | Heriot-Watt University
Edinburgh
09/2022 – 06/2023

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

A levels in Maths, Comp Sci & Biology & Biology | C, B, B | Brockenhurst College
Brockenhurst
09/2020 – 06/2022

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

EXPERIENCE

Fullstack Developer
Personal Project
2025

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

Algorithmic Trading Developer
Personal Project
2024

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

Data Engineer
Data Annotation
2023 – Present

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

Maths Teaching Assistant (Work Experience)
Cantell School
2024

Supported teachers during lessons and helped students with their maths work. Also tutor maths.

International Cyber Expo
Nineteen Group
2025

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

Immersive Labs CTFs
Immersive Labs
2022

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

AWS Summit
Amazon Web Services
2024

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

SKILLS & INTERESTS

Programming
Python, C#, C++, Java

Lifetime programmer. Comfortable with multiple languages and paradigms. Understand OOP, functional and procedural programming. Best language is Python, second is C++.

Web Development
TypeScript, React, Vite, Node.js

Developed web apps using modern frameworks and tools like React.

Linux & DevOps
Arch, Bash, Docker, Git, AWS

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

Trading
MQL5, SARIMAX, Statistics

Built personal trading systems with risk management strategies. Also am invested into markets. Self study texts like *Introductory Econometrics: A Modern Approach*.

Pentesting & Security
Burp suite, CSRF, OpenSSL

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

Politics & Finance
yFinance, Podcasts, Financial Times

Follow global politics and financial markets. Read news, books and listen to related podcasts like *The Rest is Politics*. Currently reading *Mrs Thatchers Economic Experiment* by William Keegan.

Sports
Teamwork, Leadership, Confidence

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