

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. Also tutor maths.

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. Best language is Python.

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 containerisation, version control and cloud services through personal projects and Data Annotation.

Arch, Bash, Docker, Git, AWS

Trading

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

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. Read news, books 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