**Toby Chen**

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# PERSONAL PROFILE

# Driven second-year Mathematics undergraduate at Queen Mary University of London, specialising in pure mathematics and applied computer science. Eager student looking to apply strong analytical and programming skills to solve challenges at \_\_\_. Proactive learner with hands-on experience in cybersecurity, software development, and algorithmic trading. I am seeking an internship at your establishment to further develop technical expertise and contribute to impactful projects.

# EDUCATION

# Queen Mary University of London | BSc (Hons) Mathematics | 2023- 2026

* **First year**: Built strong foundations in logic, analysis, statistics and algebra. Average grade was 65%. Gained proficiencies in statistical analysis through tools like Python (Pandas, NumPy) and R.
* **Second Year**: Focusing on pure mathematics, notably Number Theory and Linear Algebra. Average grade is 90%. Independent studies of cybersecurity and software development.

# Heriot-Watt University | CertHE in Mathematics, Physics and Computer Science | 2022-2023

* Developed a biological mathematical model to map bacterial vs. viral pandemics. Model predicted (via back testing) pandemic types with 70% accuracy.
* Enhanced public speaking and presentational skills though focus groups.

# Brockenhurst College | A-Levels – 2020-2022 | Priestlands School | GCSEs – 2015-2020

* **A-Levels**: B, B, C – Biology, Computer science, Mathematics.
* **GCSEs**: 10 GCSEs – 8, 5 – Mathematics,English (Lit + Lang).

# WORK EXPERIENCE

# Immersive Labs | 2021 - 2023

* Gained hands-on experience in various topics including Steganography, Cryptography, Pen-Testing, and Systems Forensics; examples include manipulation NTFS file systems to detect tampering, verification of RSA key pairs.

# Frontend Development | 2023-Present

* Designed and maintain a personal website using Bootstrap and jQuery.
* Applied principles of UX design and accessibility to enhance functionality. Website is fully reactive.

# Python Trader | 2024-Present

* Built a trading algorithm leveraging technical indicators and modelling for automated stock buying and selling.
* Implemented APIs to import financial data and make trades, statistical libraries for data analysis and SARIMAX for modelling of financial markets. Algorithm can work with vast amounts financial data.

# KEY SKILLS AND ACHIEVEMENTS

* **Technical Skills:** Proficient in Python, R, C++, C#, Java, SQL and Web dev. Experienced with Git, Linux, VSCode, and Microsoft Office Suite. Comprehensive understating in cloud computing through AWS and Docker.
* **Programming Capabilities:** Continuously developing new projects in various languages, all of which can be found on my [GitHub](https://github.com/ToadBoyChen?tab=repositories). Easily able to pick up new languages, frameworks and practises.
* **Mathematics:** Relevant modules in Differential Equations, Optimisation, and Applied Statistics and Python for maths.
* **Algorithmic Trading:** Experience in developing, back testing and running trading strategies on model predictions using indicators and models (like ARIMA).
* **Cybersecurity Skills:** Cryptography, penetration testing, and forensic analysis. Proficient with industry tools like OpenSSL, Wireshark, Burp suite; Very comfortable with networking and API handling.
* **Leadership and Teamwork:** Raised £4,500 for African Adventures, contributing to building schools in underprivileged areas in Kenya.
* **Communication:** Public speaking and presentation skills. Presented and held a Q&A for a biological model. Explained how the model works and the results. 78% grade given and Distinction for vocal assessment in English (GCSE).
* **Athletics:** National kickboxer at BCCMA; sports scholar and TASS athlete at Heriot-Watt and Brockenhurst College. I have won the nationals once and achieved two silver medals.

# INTERESTS

* **Financial Markets:** Regularly follow global markets and read the news.
* **Music:** I play the piano, electric guitar and saxophone; and especially enjoy Alt-rock.
* **Rugby:** An active player with Queen Mary RFC 1st XV and London Scottish Lions.

**References available on request**