Qiyuan Chen

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Education

2021 - 2025 **University College, University of Oxford**
Integrated Masters in Mathematics and Computer Science
Including a 2.1 for years 1-3

2014 - 2021 **King Edwards Camp Hill School for Boys**
A-levels: Maths A*, Further Maths A*, Physics A*, Chemistry A*
GCSEs: eight 9s, one 8 and one 7

Work Experience

(2024 Summer) **OxDelivers - Software Engineer**
Worked with a team in React/Typescript/Node.js in an agile environment to develop the internal tooling for the company to use for manufacturing electric vehicles.
Took over the development of the Manufacturing BOM and the Build Planner, promptly responding to stakeholder requests and issues to make improvements.

(2023 Spring) **Modux - Micro Internship**
Coded a function to add a cyclic redundancy check (CRC) code to an input with C#.
Experimented with various ways to reverse the process, by methods of brute force and linear algebra.

(2022 Summer) **DTIServices - Software Engineer (Internship)**
Collaborated with a senior developer at DTIServices to create greenplates.uk and Prayerbud while learning React, Node.js and git-based workflows.
I engineered key features including pagination on an SQL database, a Google Maps integration, and cloud-based audio storage using AWS.

Project Experience

(2024-2025) **Created machine learning models for off-target prediction in CRISPR gene editing**
For my Master's project, I built various models, including FNNs, RNNs, CNNs, and traditional ML algorithms, using Python and TensorFlow, which I then combined into an ensemble.
This enhanced the predictive accuracy for CRISPR off-target effects, a critical step in reducing unintended side effects in genetic therapies.

(2024) **Founder of multikick.vercel.app**
Built a platform with Next.js/TailwindCSS that enables users to watch an unlimited number of Kick livestreams simultaneously on a single page, serving 2,000+ monthly active users today.

(2023) **Developed a medical image processing program for ALS research**
I worked on a program which takes medical images to identify synapses using Python.
The code filters for likely synapses and then displays it in an interactive window to allow the user to view the synapse locations/densities and scan for anomalies.
This tool helps in identifying synaptic anomalies more efficiently, important for ALS research.

Activities and Interests

Music - ARSM Diploma Piano (Merit), ARSM Diploma Flute (Merit).
Chess - Played for my College in the chess Cupper's League.
Competitions - Taken part in an Oxford Hackathon and the yearly Advent of Code.
Tutoring - Tutored several students in maths, primarily for A-level Mathematics.