

ZHANG ZHANG

SUMMARY

A highly motivated MSc Computing graduate from Imperial College London with a first-class BSc in Biomedical Sciences. Proven track record of academic excellence, strong computational skills and a passion for continuous learning. Actively seeking graduate opportunities in software development.

EDUCATION

MSc Computing (Merit), Imperial College London. *Sep 2023 – Sep 2024*

Final Project: [Crypto Explorer: An Interactive Real-time Bitcoin Data Visualisation Demo for the Data Observatory at Imperial College London](#)

- Developed 5000+ lines of full-stack code in three months, implementing a robust server-client architecture with a Python server and JavaScript clients.
- Significantly improved the demo stability and efficiency by distributing rendering tasks across 12 display screens.
- Introduced advanced interactive features, providing deeper insights for research.

BSc Biomedical Sciences (First-class), University of Bristol. *Sep 2020 – Jul 2023*

Final Project: [The Impact of Diadic Subspace on L-Type Calcium Channel Mechanisms in a Cardiocyte: A Computational Modelling Study](#)

- Developed a MATLAB model to analyse calcium dynamics in cardiocytes.
- Awarded an outstanding first-class grade of 79%.

A-LEVELS, Kunming No.1 High School International Division. *2018 – 2020*

Mathematics (A*), Physics (A*), Biology (A*), Chemistry (A*), Further Maths (A)

PROJECT EXPERIENCE

[MoodSwings: A Music-Recommendation Web App](#)

- Co-developed a Python-based web app that uses a face recognition API to detect users' emotions and recommend music accordingly within 24 hours.
- Earned the runner-up prize for newcomers at IC Hack 24, the largest student-run hackathon in Europe.

[MyNotes: A Web App for Note-taking and Deadline Management](#)

- Co-developed a web app with a Python backend and Postgres databases.
- Containerized apps with Docker and deployed as microservices on Microsoft Azure. Streamlined deployment by automating build and testing workflows.
- Acted as sole responsible person for front-end development with React.

[CityExplorer: A Web App for Travel Recommendation](#)

- Co-developed a Python-based web app, integrating multiple REST APIs.
- Used Postgres databases to store user search history and preferences.
- Earned an exceptional distinction grade of 80%.

[Chess Game Simulator](#)

- Developed a C++ program to simulate and manage chess games, implementing an object-oriented design for handling game state and move validation from Forsyth-Edwards Notation (FEN).

WORK EXPERIENCE

Bakery Chef, Gail's. *London, UK — Oct 2024 – present*

- Ensured the timely preparation of freshly baked goods, managed inventory and orders efficiently, and upheld high standards of quality and food safety.

Commis Chef, Hoba Kebab. *Bristol, UK — Jun 2021 – Dec 2022*

- As a long-serving core team member, contributed to the restaurant being featured on BBC 'Britain's Top Takeaways' in 2022 and achieving the highest delivery rating in Bristol.

Lab Assistant, Yunnan University. *China — Feb 2019 – Mar 2019*

- Assisted with experimental reagent preparation in the molecular biology laboratory, contributing to a rigorous research project exploring the impact of cellular functions on reproductive aging.

CONTACT

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LINKS

[LinkedIn](#)

[GitHub](#)

SKILLS

- Languages: **C++**, **Python**, **JavaScript**, **Java**, **SQL**, **HTML**, **CSS**, **TypeScript**, **MATLAB**
- Frontend: **React**
- Backend: **RESTful API**, **Flask**, **Django**, **Fast API**
- Software Development Practices: **Agile**, **Test-Driven Development (TDD)**, **Object-Oriented Programming (OOP)**, **Design Patterns**
- Cloud Computing: **AWS**, **Azure**
- DevOps: **Docker**, **Continuous Integration/Delivery (CI/CD)**
- Version Control: **Git**
- Unit / Integration Testing
- Command Line and Scripting
- Databases
- Machine Learning
- Data Interpretation and Analysis: **IBM SPSS**
- Effective Teamwork and Communication Skills
- Excellent Problem-Solving Abilities
- Quick Learner with Strong Adaptability

AWARDS

Bristol PLUS Award (*Jul 2021*)

Achieved the University of Bristol's employability award in my first year. Awarded to fewer than 5% of UoB students each year.

Outstanding Cambridge Learner Award: Top in China (*Nov 2016*)

Sole recipient of this award for achieving the highest mark in IGCSE Maths across China.

CERTIFICATIONS

- [AWS Certified Cloud Practitioner](#)
- SkyScanner – [Software Engineering Job Simulation](#)
- SETsquared Partnership IKEEP Programme: [Intrapreneurial Training Award](#)
- [APM Student Membership](#)