

# ZIXI WANG

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## EDUCATION

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### MEng Computing - Imperial College London

*Oct 2021 - Jun 2025 (present)*

- Modules include: Java, Kotlin, C, Databases, Discrete Math, Computer Architecture, Operating System, Software Engineering, Algorithm Design, Compilers, Networks

## BANKING EXPERIENCE

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### Software Developer Intern - Bank of America, UK

*Jun - Aug 2023*

- Worked in a team of six software engineers to develop an algo control application for traders.
- Improved the smoke testing efficiency by 98.06% through automating the testing by developing an intuitive dashboard to show real-time feedback using TypeScript and React.
- Managed to do a stretch task of ensuring data synchronization among services by adding a GraphQL endpoint to the server code for AMPS checks, using Java, GraphQL and Spring.
- Presented the developed monitoring dashboard to different teams under same division globally through a 15min presentation.
- Communication skills and teamwork skills enhanced through daily team scrums, sprint checks, retrospective and networking events.
- Participated in a machine learning code challenge in a team of seven to investigate and predict relationship between trades and readership, learned about basic concepts of ML.

## RELEVANT PROJECTS

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### Design for Real People - Imperial College London

*May - Jun 2023*

- Worked in a team of four people to target and solve a real-world problem.
- Interviewed and researched different fields, and chose the problem statement 'How might we assist young adults in effectively tracking the expiration date of items they consider important'.
- Developed an creative Android app that allowed users to log in items with expiration dates, and customize the notifications, with embedded chatting system to share/request items.
- Learned and applied new knowledge including Kotlin, Firebase and SQLite.
- Obtained skills including human centered design methods, video filming, presentation, report writing through elevator pitch, weekly presentations, prototyping and iterations.

### WACC Compiler - Imperial College London

*Jan - Mar 2023*

- Worked in a team of four people to write a compiler from scratch.
- Designed and implemented syntactic analysis, semantic analysis in the front end, and revisiting AST and symbol table to generate assembly in the back end.

- Learned and applied knowledge including new language Scala and concepts of compilers.
- Took responsibility for organizing and scheduling regular meetings.

### **Pintos - Imperial College London**

*Oct - Dec 2022*

- Worked in a team of four people on a simple operating system framework for 80x86 architecture that supports kernel threads, user programs and a file system.
- Enhanced features of the OS framework by implementing priority scheduling, user programs and adding a virtual memory implementation, using C language and OS concepts.
- Obtained comprehensive understanding of operating system, including threads, concurrency, virtual memory, file system and data structure design.
- Collaborated with teammates to split the project into individual tasks, and set clear goals and deadlines to ensure timely completion of project milestones.
- Noted down meeting minutes that documented discussions, decisions, and action items, facilitating progress tracking.

## **EXTRACURRICULAR**

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### **Codeathon - Fitch Group, London**

*Nov 2023*

- Won the codeathon as a team by implementing a mobile application for charity Friend of Bulgaria within two days.
- The app allowed users to see upcoming events, register and pay for the tickets by Paypal, and both organizers and users would receive confirmation emails after the payment.
- Learned and applied new techniques including React Native, AWS Amplify, WordPress, Paypal api.

### **Orchestral Manager - Imperial College London String Ensemble**

*Sep 2023 - present*

- Responsible for booking weekly rehearsal rooms and venues for the concert each term.
- Collaborated with other committee members to arrange events for the society.
- Attended weekly rehearsals as a violin player since Oct 2021.

### **Active Member - Imperial College London Sinfonietta**

*Oct 2021 - present*

- Attended weekly rehearsals as a violin player.
- Participated in the concert each term.

## **IT SKILLS**

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- Preferred programming languages: Java, Python
- Skilled in Kotlin, TypeScript, C, Html/CSS, MySQL
- Experience with React, Spring frameworks, Win/Mac/Linux environments