

Zixi Wang

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EDUCATION

MEng Computing - Imperial College London

Oct 2021 - Jul 2025 (present)

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

A-levels - CATS College London

Sep 2019 - Jun 2021

- Physics(A), Mathematics(A*), Further Mathematics(A*)

RELEVANT PROJECTS

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, DevOps and CICD.
- 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.

WORK EXPERIENCE

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.

EXTRACURRICULAR

Orchestral Manager - Imperial College London String Ensemble

Sep 2023 - present

- Responsible for booking weekly rehearsal rooms and concert halls 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

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

LANGUAGE SKILLS

- Native speaker of Chinese(Mandarin)
- Fluent English

RESEARCH INTERESTS

- System design - considerations and trade-offs when choosing different design patterns
- Security concerns related to AI/ML skills, including phishing and hacking