MANHUA LU

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EDUCATION

Bachelor of Computer Science and Commerce, University of New South Wales — 2021 - 2024
(Distinction WAM, Recipient for the Academic Achievement Awards)

Awards: UNSW WIT Hackathon 2023 2nd Place, USYD SYNCS Hackathon 2023 Best Social Impact Award, UNSW CSESoc Hackathon 2023 Top 5

SKILLS

Technical Skills	React, TypeScript, JavaScript, Python, Java, C, MIPS Assembly, Bash, Flask, Git, CSS, HTML, React MUI, TailwindCSS, Radix UI, Nest.js, Next,js, SQL, PostgreSQL, Psycopg2, Rust

PROJECTS

Notangles. — TypeScript, React, HTML, CSS, Express.js, Node.js, Nest.js
As a part of UNSW CSESoc Projects, developed a web application with a drag-and-drop interface for students to plan their timetables. Personally implemented functionality to drag-and-drop custom-user events. (Try it here)

Student Markbook. — TypeScript, React, Next.js, Nest.js, PostgreSQL, Prisma, TailwindCSS, Radix UI
A web application that allows me to create classes to store my students' exam marks, calculate averages and view progress. Created Figma designs for the pages. Designed the relational ER schema.

Porfolio Website. — Next.js, TailwindCSS, Radix UI
A deployed website that shows the personal projects I've worked on and tells the user more about myself.
(Try it here)

WORK EXPERIENCE

Software Engineer Intern — Nov 2023 – Feb 2024
Atlassian Pty Ltd — *Sydney, NSW*

- WIP...

CSE Casual Academic — Feb 2023 – Present
UNSW — *Kensington, NSW*

- Taught university students PLpgSQL, psycopg2, Relational Modelling, Transaction Schedules, Serialisability and Normalisation for the COMP3311 course (Database Systems).
- Answered questions and debugged students' code in computer lab sessions of around 30 students for the COMP2041 course (Software Construction: Techniques and Tools).

EXTRA-CURRICULAR ACTIVITIES

- **UNSW DevSoc Executive Vice President.** Oct 2023 – Present
  WIP ...

- **UNSW CSESoc Projects Director.** Jan 2023 – Dec 2023
  Led a team of 9 to continuously improve and deploy new features for **Notangles**. Utilise Jira, Confluence and review Github pull requests. Attend weekly meetings and standups.

- **UNSW CompClub Mentor.** May 2022 – Present
  Held free workshops that taught a class of 27 students of years 7 to 12 Python, Web Development and Shell. Promoted computing to younger generation by creating a fun and collaborative environment.