Max Xue

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EDUCATION

University of New South Wales   *Sept 2020 – Present*
Bachelor of Commerce/Computer Science
Computer Science WAM: 85.45

WORK EXPERIENCE

Software Engineer Intern @ Displayr   *Nov 2022 – Present*
- Participated as a software engineer on multiple teams, working in an AGILE environment.
- Created new features, implementing both the frontend and backend components.
- Added distributed tracing using the OpenTelemetry standard for identifying and diagnosing slow performance areas.
- Refactored existing systems, e.g., the Promise error handling system, and migrated outdated technologies to newer ones.

UNSW Computer Science Tutor   *Feb 2023 – Present*
- Teaching COMP3311 Database Systems.

TECHNICAL SKILLS

- React
- TypeScript
- HTML/CSS/JavaScript
- Tailwind CSS
- Next.js
- Git Version Control System
- Java
- PostgreSQL
- Python (Flask)
- C#
- Node.js and Express.js
- MongoDB and Mongoose

EXTRACURRICULAR INVOLVEMENT

Various HTML, CSS, JavaScript, and React Projects
- Self-learnt HTML, CSS, JavaScript, React and the MERN stack as well as multiple third party NPM packages (such as React Router, Styled Components and more) and support technologies such as TypeScript and Next.js.
- Created React client-side projects and Node.js backend servers with Express and Mongoose.
- Created the frontend for a calendar project using Framer Motion and leveraging the useLayoutEffect hook for manipulating the DOM before React's commit phase.
- Created the frontend for a project for personal planning, creating an adjustable sidebar by attaching event listeners to the window and controlling re-render frequency through the useRef hook and using throttling to create a smoother resize animation.
- Created personal portfolio at m-xue.dev.

UNSW CSESoc (Education Subcommittee 2022 and VP Education Exec 2023)   *March 2022 – Present*
- Ran a C revision workshop to help students prepare for the COMP1511 Programming Fundamentals final exam.
- Ran a YouTube live workshop covering a fullstack MERN application, covering HTML/CSS/JavaScript, HTTP requests, Node.js (Express) backend server, connecting a MongoDB database to the server and linking a React frontend to the backend.
- Helped create and run the Open Dev CSESoc program, teaching students the MERN tech stack over a term

Digisoc Product Design   *Nov 2021*
- Worked collaboratively to design a product to address the social aftereffects of COVID-19 isolation over the course of 9 weeks.
- Used product design principles such as discovery phase, user testing and interviews and low and high-fidelity-prototyping.
- Responsible for the UX/UI design, having fortnightly meetings with an industry expert for advice and guidance.

Sydney Computing Society 2021 Hackathon   *Aug 2021*
- Implemented Atlassian's Trello workflow platform API to create an addon to Trello's Power Up ecosystem.
- Responsible for frontend (JavaScript) and backend web application development (Mock JSON Server).
- The Power Up played music in the background of the Trello interface. For every 5% of tasks completed, a new instrument would be added to the background soundtrack, building up to a completed soundtrack once all tasks were done.

Monash Association of Coding x Hacksprint Hackathon   *Jul 2021*
- Created the frontend for a mobile application to provide users updates on Government information about COVID hotspots, with visual aids on an inlaid map, allowing users to see their own location relative to these hotspots at any given time.
- Used React Native, Google Maps API and collaboratively worked on a code base using Github.

NOTABLE UNIVERSITY COURSE COMPLETIONS

- COMP1511 Programming Fundamentals 85
- COMP1521 Computer System Fundamentals 88
- COMP2521 Data Structures and Algorithms 80
- COMP3121 Algorithms and Programming Tech 82
- COMP1531 Software Engineering Fundamentals 93
- COMP3311 Database Systems 96
- COMP3331 Computer Networks and Applications