

AGNES TJOKROSETIO

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PROJECTS

Software Engineer | UNSW Mending Broken Hearts (ENGG3600)

Feb 2025 - PRESENT

- Engineered a cross platform mobile application in React Native, Expo and Firebase to support real time heart monitoring and health management
- Integrated Firebase authentication to handle secure user login and data persistence
- Developed a clinician web and desktop interface in React.js and TypeScript to enable real time access and visualisation of patient vitals and measures
- Collaborated with the Control Systems team to integrate sensors into the application backend

Frontend Engineer | presto (COMP6080)

Oct 2024 - Nov 2024

- Engineered a web-based presentation platform in React.js and Vite with a teammate, replicating the functionality of slides.com, enabling users to create, edit and present slide decks
- Implemented user authentication (login, register, logout) using form validation and session management and implemented routing using React Router
- Developed a dashboard interface for managing presentations and slides
- Built an interactive slide editor supporting text, images, videos and code blocks
- Implemented drag and drop positioning, resizable and navigation controls for slide elements
- Built advanced features such as revision history, URL updating and slide transitions

WORK EXPERIENCE

Casual Academic | UNSW, Kensington, NSW, Australia

Sep 2024 - PRESENT

- Delivered tutorials and labs for the course Computer Systems Fundamentals to classes of ~25 students
- Achieved ~40% higher student satisfaction than the School and Faculty teaching with a mean rating of 5.55/6
- Recognised for provided clear explanations, useful slides and fostering an engaging and inclusive learning environment
- Facilitated labs, help sessions and online forums, driving increased student participation in learning and problem solving
- Marked assignments and exams for over 200 students and invigilated over 20 course examinations to assess student performance

Student Mentor | UNSW, Kensington, NSW, Australia

May 2024 - PRESENT

- Provided peer tutoring to first year students in first year mathematics courses (Mathematics 1A, 1B, and Discrete)
- Contributed to the study hub environment by fostering collaboration, guidance and peer-to-peer learning to help students transition to university level course work
- Increased student engagement with course work and improved course work understanding

Mathematics Tutor / Marker | Dr Du Education, Burwood, NSW, Australia

Feb 2023 - Apr 2025

- Tutored over 30 senior high school students weekly in Mathematics Advanced, Extension 1 and Extension 2
- Increased student participation in online help forums and guiding students through homework and quiz solutions
- Recognised for teaching with clarity and patience and fostering an inclusive learning environment
- Marked over 300 student quizzes and homework submissions each term across to assess student performance

SKILLS

- General:** Collaboration, Communication, Problem Solving, Adaptability, Leadership and Management
- Programming Languages:** C, MIPS Assembly, Java, SQL, Python, Rust, JavaScript, TypeScript, React (.js & Native)
- Systems / Platforms:** GitLab/GitHub, Figma, Expo, Vite, PostgreSQL

EDUCATION

Bachelor of Computer Science / Commerce | University of New South Wales

2023 - Present

WAM: 81.545 (DISTINCTION) | *Majors:* Computer Science, Finance

Notable Courses (85+): Web Front-End Programming, Mathematics 1A, Mathematics 1B, Discrete Mathematics, Toolkit for Finance, Social Entrepreneurship Practicum