

# AGNES TJOKROSETIO

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## PROJECTS

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- 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

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- 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

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- 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

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- 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