

Evan Mahmood

Newcastle, NSW

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LinkedIn: www.linkedin.com/in/evanmahmood29

Online Portfolio: <https://evanm29.github.io>

GitHub: <https://github.com/EvanM29>

EDUCATION

University of Newcastle

Bachelor of Software Engineering (Honours)

Graduation: 2024

First Class Honours

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, C/ C++, Python, Dart

Frameworks and Databases: React, React.js, Node.js, Flutter, Next.js, Vue.js, .NET MAUI, Spring/Spring Boot, MySQL, MongoDB, PL/SQL

Machine Learning Frameworks: TensorFlow, Scikit learn, PyTorch

Web Development: HTML, CSS, XML

Tools: Git, Contentful, Postman, Wireshark, tcpdump

CERTIFICATIONS

Google Cybersecurity Professional Certificate

Present

- Developed practical expertise in Security Management, Risk Management, Threat Detection, SIEM, and Enterprise Security.
- Conducted an internal security audit, evaluating controls and identifying vulnerabilities in both network and OS environments.
- Applied the NIST Cybersecurity Framework (CSF) to produce incident analysis reports and assess security incidents.
- Gained hands-on experience with Wireshark and tcpdump, investigating malicious activity and analysing network traffic.
- Delivered detailed security reports on Network and OS Hardening, Network Traffic Analysis, and Network Attack Investigations.
- Strengthened skills in network protocols, intrusion detection/prevention, encryption, VPN security, and cloud security through technical labs and simulations.

WORK EXPERIENCE

Graduate Software Engineer, Qvalent - Westpac Bank, Australia

01/2025 – Present

- Utilised Spring Boot (Java) and Vue.js to develop internal tools, Test Posters and Bouncers for validating request and response communication in the product.
- Conduct testing and verification of CARDio and QuickStream applications, ensuring reliability and compliance with 3D Secure Authentication protocols.
- Enhance customer experience by optimising website responsiveness and mobile compatibility, implementing design improvements and UI refinements.
- Collaborate with cross-functional teams to identify and resolve issues, ensuring seamless integration of payment solutions.

Student Software Engineer, Centre for Construction Safety and Well-being - UoN, Australia

02/2024 – 11/2024

- Student Work Placement position as a part of my Final Year Project which included defining project requirements, creating models, system design and developing an Artificial Intelligence-driven solution to address hazard identification and control measures in the construction Industry.
- Developed a comprehensive web application using React.js, Node.js, and MySQL. The system leverages cutting-edge AI technology, specifically the Llama 3.1 large language model via LangChain, to automate the generation of hazard control measures.
- Integrated the LangChain framework to ensure LLM-agnostic flexibility, allowing easy adaptation to new AI models or extensions, such as Retrieval Augmented Generation (RAG) in future iterations.
- Implemented voice-to-text technology (Web Speech API) for hazard description input, streamlining the user experience.
- Optimised hazard reporting efficiency, reducing input time by 58% through user-tested voice-to-text functionality.
- Actively involved in system testing and user feedback collection to ensure the tool's practical application in real-world construction safety environments.
- Designed and maintained a scalable and modular system architecture, ensuring future extensibility and integration with additional AI tools or updated LLM models.
- Actively participating in fortnightly meetings with project supervisors, which include discussions of the project, deliverables, research, and areas for improvement.
- Successfully conducted and completed an approved Literature Review of relevant technologies.

Front-End Engineer Intern, Mudbath (Endava), Australia

02/2024

- Developed a webpage using Next.js as part of a Headless CMS project, showcasing a strong interest and hands-on experience in front-end development.
- Observed and actively participated in project discussions and decision-making processes led by the senior tech lead.

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Software Engineering Intern, Pulse Mining Systems, Australia

11/2023 – 01/2024

- Supported company in transitioning to Peppol Invoicing and establishing as a Peppol Access Point.
- Spearheaded the design and development of the full-stack Peppol Access Point web application utilising React.js, Node.js, and MySQL. The application encompassed user authentication and allowed users to efficiently manage past Peppol e-invoicing transactions.

PROJECTS

FlightPub (Online Flight Booking System)

2023

- Led a team of five software engineering students in developing and deploying an online flight reservation system for a client.
- Defined project requirements, created models, and designed the system, contributing to crucial wireframes.
- Presented prototypes and final product, receiving positive feedback from both clients and colleagues.
- Led deployment, conducted comprehensive software testing, and authored a detailed testing document, ensuring system reliability.
- Spearheaded authentication feature development, focusing on robust security measures.
- Transitioned the project from Struts 2 to a final deliverable on Spring Boot.

Spotify Minimalistic Redesign

2023

- Redesigned the Spotify song play page to have a minimalistic, modern look. Includes both light and dark mode. Made using Flutter.
- GitHub Link: <https://github.com/EvanM29/spotifyReDesign>

Personal Online Portfolio

2023

- Created an online portfolio showcasing personal projects, technical skills, and interests using HTML, CSS, and JavaScript. The portfolio offers detailed insights into my capabilities, serving as a dynamic representation of my professional background and achievements.
- GitHub Link: <https://github.com/EvanM29/EvanM29.github.io>

E-Commerce Library Website

2022

- Developed An E-Commerce website to sell books. Currently includes a library of books and books divided into a Featured and Latest section. Made using HTML, CSS and JavaScript.
- GitHub Link: <https://github.com/EvanM29/mini-project-1>