Evan Mahmood
Newcastle, NSW

Email: evan.mahmood@gmail.com   **Online Portfolio:** https://evanm29.github.io
LinkedIn: www.linkedin.com/in/evanmahmood29   **GitHub:** https://github.com/EvanM29

EDUCATION

University of Newcastle   **Graduation: 2024**
Bachelor of Software Engineering (Honours)   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, Contenful, Postman, Wireshark, tcpdump, Suricata, Splunk, Google SecOps

CERTIFICATIONS

Google Cybersecurity Professional Certificate   **Completed**
- Developed comprehensive, hands-on proficiency in threat detection, incident response, and vulnerability management across diverse network and operating system environments.
- Conducted internal security audits using the NIST Cybersecurity Framework (CSF) to assess controls, identify risks, and recommend mitigations aligned with industry best practices.
- Analyzed network traffic and attack vectors with tools such as Wireshark, tcpdump, and Suricata IDS/NIDS, configuring signatures and correlation rules to detect malicious activity.
- Investigated security incidents through SIEM platforms including Splunk and Google Chronicle (SecOps), performing log correlation, event triage, and threat-hunting exercises.
- Executed the full incident response lifecycle—identification, containment, eradication, recovery, and post-incident reporting—documenting findings in professional security reports.
- Automated cybersecurity workflows using Python, applying regular expressions (Regex) for log parsing, secure file handling, and custom script development to improve incident detection efficiency.
- Strengthened technical skills across Linux administration, SQL for data interrogation, encryption and VPN security, and cloud security fundamentals.
- Explored the integration of Artificial Intelligence in cybersecurity, understanding its role in automated threat detection and incident escalation.

WORK EXPERIENCE

Graduate Software Engineer, Qvalent - Westpac Bank, Australia   **01/2025 – Present**
- Developed software using Spring Boot (Java), PL/SQL and Vue.js, to validate request and response data flows in an enterprise payment system. I am currently participating in software development in both customer-facing and internal applications. This includes ensuring the functionality and reliability of the 3D Secure Authentication protocols.
- Conducted software testing and verification of mission-critical applications, working within a team to ensure system reliability, data accuracy, and compliance with card scheme protocols.
- Enhanced user experience by implementing responsive web design improvements and UI/UX optimisations, ensuring cross-device compatibility.
- Collaborated in software development teams, actively participating in daily stand-ups, planning, retrospectives, and reviews, contributing to continuous delivery of secure and scalable software products.
- Performed code reviews of peer contributions to maintain code quality, enforce coding standards in alignment with Westpac's internal security and compliance policies.
- Performed regular troubleshooting/debugging/root cause analysis.
- Engaged in continuous learning and improvement, incorporating feedback from senior engineers and retrospectives to refine development techniques and team collaboration.

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.

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