

Daniel Mattioli

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SUMMARY

I am a third-year Software Engineering student at Deakin University (graduating 2026) with hands-on experience in full-stack development, IoT systems, and collaborative Agile projects. Skilled in C++, JavaScript, C#, Python, React, and ASP.NET Core, with practical experience using Git/GitHub, cloud tools, and testing frameworks. Demonstrated ability to deliver working solutions through capstone and industry projects, including an AI tutor chatbot and IoT automation systems. Eager to apply problem-solving skills and technical knowledge in a summer internship to contribute to real-world software development.

EDUCATION

Deakin University - Bachelor of Software Engineering (Honours)	Mar 2023 - Present (Expected Nov 2026)
Xavier College (Kew) - VCE	2015 – 2022 (graduated)
• Subjects (Units 3/4): Mathematical Methods, Physics, Software Development, English, Business Management, Physical Education.	

TECHNICAL SKILLS

Core Competencies

Algorithms & Data Structures, Software Engineering, Database Systems, IoT Applications, Web Development (full stack), Networking, Software Testing & QA, Cloud & DevOps.

Tools & Platforms

Git/GitHub, Docker, MQTT, Node-RED, Arduino, Jenkins/CI, JUnit/Selenium.

Languages and frameworks

C++, C#, JavaScript/TypeScript, Python, React, ASP.NET Core, Node.js, SQL,

Methodologies

Agile sprints, PR reviews, Trello/Kanban, play-testing/UX feedback loops.

PROJECTS

- **AI Tutor Chatbot (Bugbox) - Front-end & API integration:** Built lesson-aware chat interface, file upload and text extraction (pdfjs, Tesseract), safe-token processing, and UI/UX improvements which was tested by 10+ students at Deakin open day. This project was coordinated on GitHub and Kanban.
- **IoT Systems:** Node.js MQTT pub/sub, Node-RED dashboards, Arduino Nano 33 IoT (timers/interrupts), LED modes, automatic load-cell pet feeder, RFID door locking system, DHT11 telemetry, and simple cloud/device logging.
- **ASP.NET Core Web API (Robot Simulator):** Implemented N-Tier controllers, custom BasicAuth handler, policies, unit tests, and Postman suite; endpoints for maps/commands using swagger UI.
- **Java + JUnit/Selenium Testing:** Decision tables, unit tests for login service; wrote Selenium E2E for HTML login form; integrated with CI.
- **C++/Parallel Programming:** Threads/OpenMP/MPI comparisons; performance benchmarking; implemented QuickSort/K-Means variants.

WORK & COMMUNITY EXPERIENCE

Sales Agent - Australian Private Networks (APN / Activ8me)	Mar 2023 - Present
• Supported customers over phone, developing strong communication and problem-solving skills.	

Warehouse & Job Site Painter - Mattioli Bros Pty. Ltd.	2020 – 2022
• Assisted with warehouse tasks and job sites, building teamwork and reliability.	

Volunteer & Community Service	2019 – 2020
• Helped run senior activities, tutored primary students, and supported school/community events.	

REFERENCES

- James Kostoulias – Sales Manager - APN / Activ8me – james.kostoulias@apn.net.au