

# Daniel Mattioli

Melbourne, Victoria, Australia

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## SUMMARY

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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

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**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

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### 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

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- 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

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**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

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- James Kostoulas – Sales Manager - APN / Activ8me – james.kostoulas@apn.net.au