

Alexandar Nikolic

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Professional Summary

Final-year Software Engineering (Honours) student at UTS with internship experience at Thales and ClearBox Systems. Skilled in full-stack development using React, TypeScript, Python, and SQL within Agile environments. Seeking a graduate software engineering role to develop scalable, high-quality software solutions.

Technical Skills

Languages:

TypeScript, Python, C++, SQL, HTML, CSS

Frameworks & Libraries:

React, Tailwind, Angular, TensorFlow, Scikit-learn

Tools & Platforms:

Git, Docker, PostgreSQL, IntelliJ, VS Code

Workflow & Methodologies:

Agile/Scrum, Jira, Confluence, CI/CD concepts

Experience

Software Developer Intern | Thales

Feb 2025-Jul 2025

- Contributed to development of a defence software system, delivering production-ready features within sprint deadlines using Agile development practices.
- Implemented bug fixes and feature enhancements improving system reliability and user functionality.
- Collaborated with developers, testers, and stakeholders to refine requirements and design solutions.

Fresh Produce Team Member | Coles

August 2023-Jan 2025

- Communicated and developed relationships with customers to best determine their needs and answer any of their questions.
- Demonstrated attention to detail in creating displays to ensure produce is accessible without being damaged.

Full Stack Software Developer Intern | ClearBox Systems

July 2022-Dec 2022

- Developed front-end and back-end features using Java, TypeScript, and Angular.
- Worked within agile Scrum teams participating in daily stand-ups, sprint planning, and retrospectives.

- Used Git-based version control and code review workflows to maintain production-quality code.

COVID-19 Test Kit Producer | ViModius

May 2021-Oct 2021

- Prepared high-volume COVID-19 testing kits while maintaining strict laboratory safety and quality procedures.

Projects

CO₂ Emissions AI Prediction (Capstone) – Developed and evaluated ML models analysing emissions and socioeconomic datasets to predict national emissions trends. *(Python, TensorFlow, Scikit-learn)*

IoT Humidity Monitoring System – Built ESP32 web-based system for real-time environmental monitoring and automated humidity control. *(Embedded C/C++, IoT)*

EmoteLog Web Application – Co-led development of full-stack diary app with emoji logging, media uploads, and analytics. *(React, TypeScript)*

Embedded Automatic Fan – Designed temperature-controlled fan using PWM, ADC sampling, and interrupt-driven control. *(Embedded C, Microcontrollers)*

Quantum Fridge Monitoring App – Developed responsive UI for remote monitoring of laboratory refrigeration systems. *(Front-End, Responsive Design)*

Education

Bachelor of Engineering (Honours)

Feb 2021-Jun 2026

Diploma in Professional Engineering Practice

(expected)

University of Technology Sydney

Major in Software

- 6.60 GPA
- Dean's List – 2022, 2024.
- High Distinction average in programming and software engineering subjects.

Referees

Available upon request