

# Tarun Patel

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Portfolio : <https://tarunpatel03.github.io/>

## Career Objective

Software Engineering student at UTS with hands-on experience in cybersecurity, embedded systems, and IoT. Proven ability to design and implement real-world solutions, collaborating across technical teams to deliver secure, high-impact outcomes. Eager to contribute technical expertise, problem-solving skills, and contributing to forward-thinking projects while continuing to advance in emerging technologies.

## Core Skills

- **Languages & Frameworks (Python, Java, JavaScript, React, SQ):** Applied Python for machine learning Foreign Exchange trading bot. Java/JavaScript and SQL for Adoption Center App. React for Inventory Management Website.
- **Tools & Platforms:** Supabase, Git, Docker, AWS.
- **Specialisations:** Cybersecurity fundamentals, IoT development, Embedded systems (ESP32), Network security, Software Development and AI Integration.
- **Leadership:** Built leadership qualities through leading teams at university and Parramatta Light Rail works.
- **Communication:** Maintained constant radio and email communications at Parramatta Light Rail, building robust communication skills.

## Relevant Projects

- **AI Trading Bot :** deploying python and Machine learning, Optimised and trained the bot to make trades on the foreign exchange for profit - AI Software Development.
- **Inventory management App :** Used multiple programming languages, namely C, python, java, react, SQL using VScode and Supabase for data storage - Software and App Development.
- **CyberScanner :** A scanning software able to sniff packets and analyse device information to scan for viruses and malware - Cyber Security Tool.

## Work Experience

### Safety Operations

October 2024 - Present

#### ABC Services

- Collaborated with Electrical, Signalling & Communication and Software Teams to coordinate testing for 24/7 coverage.
- Diagnosed system issues and streamlined testing workflows, reducing troubleshooting time by 15% and improving test coverage efficiency.
- Reported documentation and reporting for technical team alignment while working in team sizes upto 15 people.

### DevOps Engineer - Internship

July 2025 - Present

#### BeachWare

- Configured cloud deployment and infrastructure automation tasks managing all server data with 100% runtime.

- Resolved 20+ networking issues, coordinating with vendors for installation and delivery in a team; examined network performance to identify and report technical issues relating to network design.
- Cooperated with 5 technical team members to analyze designs of CI/CD pipeline products; conducted tech talks with experts and provided suggestions to senior management for product improvements.

### **Team Management EWB - UTS**

**February 2024 - November 2024**

- Led a team of 5 students in the Engineers Without Borders (EWB) Challenge, managing research and deliverables across project phases.
- Initiated problem-solving discussions when challenges arose, resulting in innovative solutions and a cohesive final submission with 95% success.
- Delegated tasks and monitored progress using shared tools, ensuring all sections of report were completed on schedule in 12 Weeks.

### **Education**

#### **Bachelor of Engineering (Software & Mechatronics) University of Technology Sydney (UTS)**

**January 2024 - December 2027**

- Coursework includes: Secure Software Development, Computer Networking, Embedded Systems, and AI Applications.

#### **Network/Security + CompTIA**

**February 2025 - July 2025**

- Gained industry-recognised experience in network configuration, security principles, and threat mitigation.

### **Referees**

Provided Upon Request