Ridge Tagala

Truganina, VIC 3029

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Aspiring Software Engineer with 2+ years of IT Experience, most recently contributing to the RMIT Rover Team. Proficient in TypeScript, Python, and C++, with a solid foundation in Data Structures, Algorithms, and RESTful API design. I am currently seeking a Software Engineering Internship to drive meaningful impact while expanding my technical and collaborative expertise.

Education

Bachelor's Degree | Computer Science
RMIT University, Melbourne | December 2026

- Active Member of the CSIT Club, participating in technical workshops, networking events, and hackathons
- Peer Mentor for core Computer Science courses, supporting student learning through academic guidance and peer-to-peer mentoring

Volunteer Work

Peer Mentoring | RMIT University | Melbourne   *March 2023 - Present*

- Supported 20+ mentees academically and personally, boosting confidence and engagement across subjects.
- Resolved 95% of mentee queries within 48 hours using analytical problem-solving skills.
- Increased mentee participation by 30% through building strong rapport and fostering engagement.

Software Engineer | RMIT Rover Team | Melbourne   *July 2025 - Present*

- Contributing to autonomous rover systems with a focus on navigation, obstacle avoidance, and precision control of scientific instruments.
- Gaining firsthand experience with ROS2 nodes for sensor input, actuator control, and SLAM-based localization.
- Exploring asynchronous programming techniques to improve sensor data responsiveness in real-time control systems.

Relevant Experience

Full Stack Developer | BusinessLocal | Melbourne   *February 2025 - Present*

- Resolved 95% of reported bugs within 48 hours, ensuring stable and reliable code.
- Managed 4+ major development milestones, delivering features on time and within scope.
- Built and maintained backend systems for 3 client platforms using NodeJS, Express, and ORM.
- Developed RESTful APIs, enabling 20% faster frontend integration and deployment.

Assistant IT Lead | Lifestyle Markets Australia | Melbourne   *November 2024 – July 2025*

- Assisted manager with daily operations, improving task turnaround by 25% through streamlined processes.
- Handled 50+ calls daily, efficiently processing customer and internal requests.
- Led automation of office tasks, reducing manual workload by 30% improving documentation

Projects

Star Wars Character Explorer | TypeScript, React, Vite, CSS | View Project
-> Developed a responsive web application to search and display characters from the Star Wars API.

- Integrated External API and implemented dynamic Search and pagination features.
- emphasised scalability and maintainability using TypeScript and Modular Architecture
- Utilised React Hooks and Vite for efficient Front-end Development

Discord Bot | Python, yt-dlp, ytmusic API, discord API | View Project
-> Built a feature-rich Discord bot in Python

- Designed and implemented modular, Object-Oriented programming architecture to support scalable features
- containerised the application with docker for streamlined deployment and consistent development environments
- added multiple features such as the ability to tell jokes, define words, play music in Voice Chat, and moderation.

Memory Allocation Simulator | C, Bash | View Project
-> Simulated Best Fit and First Fit memory allocation techniques to mimic OS behavior.

- Managed memory using linked lists and dynamic allocation in C.
- created shell scripts to automate test-case generation and performance logging
- enhanced understanding of low-level memory management and data structures

Technical Skills

- JavaScript, TypeScript, Python, C/C++, Java
- Data Structures, Algorithms, Modular Architecture, GitHub, CI/CD
- Problem Solving, Time Management, Team Collaboration, Communication

Work history

Bar Gaming Attendant
Deer Park Club, Melbourne, VIC   *January 2023 - February 2025*

- Managed $5,000+ in daily transactions with 100% accuracy and compliance.
- Oversaw 30+ gaming machines and G TAB terminals, ensuring full compliance with RSA, RSG, and TAB procedures. Resolved 10+ incidents discreetly, maintaining a safe and welcoming gaming environment.

Interests

- Staying current with emerging tech trends through blogs, podcasts, and online communities
- Exploring AI tools and Machine Learning Concepts
- Developing personal software and automation projects
- Setting up and experimenting with network/security home lab environments

References

References available upon request