

# Ridge Tagala

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**Results-driven Software Engineer with 2+ years of Experience in Full Stack Development, robotics systems, and IT support. Proven ability to deliver robust backend solutions, contribute to autonomous systems, and Mentor peers. Proficient in TypeScript, Python, and C++, with a strong foundation in Algorithms, Data Structures, and API design. Seeking a software engineering internship to apply technical and collaborative strengths in real-world projects.**

## 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.
- integrated ROS2 nodes for sensor input, actuator control, and SLAM-based localization, improving rover localisation accuracy.
- 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

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### **Star Wars Character Explorer | TypeScript, React, Vite, CSS | [View Project](#)**

-> Developed a responsive Star Wars Character Explorer with pagination and dynamic search.

- 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.

### **Self-Hosted Raspberry Pi Server | Docker, Samba, Pi-Hole, Nginx Proxy manager, Tailscale**

-> Engineered a self-hosted raspberry pi server stack, integrating dockerised services for simple management

- Configured Samba NAS for multi-device access, Pi-Hole for network-wide ad-blocking, and Tailscale VPN for secure remote access
- managed containers and domain routing through Nginx Proxy Manager, enhancing reliability and accessibility
- added a web dashboard for unified links, monitoring and service management

## Technical Skills

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- JavaScript, TypeScript, Python, C/C++, Java
- React, Node.js, Express, ROS2, Git, Docker, Vite, Bash
- Data Structures, RESTful API Design, Modular Architecture, CI/CD

## Work history

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### **Bar Gaming Attendant | Deer Park Club | Melbourne (*January 2023 – February 2025*)**

- 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

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- 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

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References available upon request