

# Ryan Kelley

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## SUMMARY STATEMENT

I'm currently studying a Diploma of Information Technology (Advanced Programming), where I'm gaining hands-on experience through practical projects. Skilled in software development, object-oriented design, and low-level programming, with a focus on building efficient maintainable and useful applications. I'm eager to contribute my skills in a professional setting while I complete my studies.

## EDUCATION

North Metropolitan TAFE **Northbridge, WA**  
Diploma of Information Technology (Advanced Programming) Feb 2025 – Dec 2025

## PERSONAL SKILLS & ABILITIES

- Clear verbal and written communication for documenting code, explaining technical concepts, and collaborating with development teams to create efficient software solutions.
- Collaborative teamwork skills for working with developers and project managers to develop and refine software.
- Strong organisational skills for managing source code repositories, structuring development workflows, and maintaining detailed records of software updates and bug fixes
- Adept at understanding and responding to colleagues' and clients' needs through attentive listening for gaining a high-level understanding of projects
- Skilful in coordinating tasks, resources, and timelines to ensure project success.

## PRACTICAL SKILLS

- Proficient in Python, PHP, C, C++, Rust and Shell Scripting.
- Foundation knowledge of JavaScript, Tailwind CSS, SQL and Dart.
- Adept in Microsoft Office suites and computer skills.
- Proficient in version control systems like Git and collaborative development platforms like GitHub.
- Strong understanding of object-oriented principles and data structures.
- Skilled at using terminal systems like BASH.
- Foundational Knowledge in Electronics and Mechatronics.
- Adept at programming IoT devices for smart technology applications.
- Competent in applying intellectual property, ethics, and privacy principles in ICT settings.

## PROGRAMMING LANGUAGES, TOOLS & FRAMEWORKS

Python, PHP, Rust, C, C++, JavaScript, SQL, Tailwind CSS, Shell, Dart, Flutter, Laravel, Flask, Git, Typst

## PROJECT EXPERIENCE

**Bash-Salt – Developer Productivity Toolkit** [github.com/sparrowsaurora](https://github.com/sparrowsaurora/Bash-salt)

Made with Python, Rust, PHP, BASH, JavaScript, Tailwind CSS

An open-source productivity toolkit designed to enhance developer experience by streamlining common or repetitive terminal tasks and improve workflow efficiency, provided as a free Software-as-a-Product.

**Key Features:** Custom Install script, Documentation Website, Multi-OS script library

- Developed a set of custom Bash commands and tools to automate repetitive developer tasks such as file structure mapping, quick notetaking, and command shortcuts.
- Built with scalability in mind, enabling future tools and scripts to be added as needed for enhanced functionality.
- Created detailed documentation and made the toolkit publicly available to support the open-source community.
- Designed and implemented a complete Front and Backend webapp in PHP to display and promote this project
- Developed a complete installation system from scratch using shell scripting.
- Positioned Bash-Salt as a developer-first product by addressing common productivity pain points through real-world use case testing and iteration.

[github.com/sparrowsaurora/Bash-salt](https://github.com/sparrowsaurora/Bash-salt)

## **Unix Epoch Display – A Unix timestamp clock for my friend**

Feb 2025 – Present

Made with C++, Pi Pico (rp2040)

A Unix timestamp display written on a rp2040 (Pi Pico)

**Key Features:** Custom multiplexer, live timestamp, time formatting modes

- Developed a real-time Unix timestamp display system running on bare-metal C++ for the RP2040.
- Designed and built a custom multiplexer circuit to drive multiple 7-segment displays with minimal GPIO usage.
- Implemented time formatting modes (raw epoch, human-readable breakdown).
- Optimised timing routines using the RP2040's hardware timers to maintain accurate second updates.
- Created a simple, modular code architecture to allow future add-ons such as RTC integration or networking.

[github.com/sparrowsaurora/unix\\_epoch\\_display](https://github.com/sparrowsaurora/unix_epoch_display)

## **WORK EXPERIENCE**

Bloom & Grow Education

Remote

Casual Video Editor

Jan 2023 – Nov 2023

- Edited videos by cutting dead space and refining content for clarity and engagement.
- Inserted B-roll footage to enhance storytelling and maintain viewer interest.
- Reviewed footage for verbal mistakes and stutters, ensuring smooth and professional delivery.
- Added subtitles and captions as needed for accessibility and audience engagement.
- Maintained a fast turnaround time while ensuring high-quality results and client satisfaction.

Cola Café

Toodyay, WA

Café Server

Aug 2020 – Apr 2021

- Provided excellent customer service by greeting and assisting patrons and ensuring a positive dining experience.
- served food and handled patron requests promptly in a fast-paced environment.
- Maintained cleanliness and organization of the café, including restocking supplies, sanitizing surfaces, and adhering to health and safety standards.
- Worked collaboratively with kitchen staff to ensure timely preparation and delivery of orders.
- Resolved customer complaints and inquiries with professionalism, ensuring high levels of customer satisfaction.

## **REFERENCES**

Please contact me directly prior to reaching out to any of my references by phone. I would be happy to provide more details and facilitate introductions.

Rachel Kelley – Owner of Bliss – At home helpers

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Meredyth Dickinson – Owner of Bloom and Grow Education

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