

David Sha

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EDUCATION

The University of Melbourne

Master of Information Technology in Artificial Intelligence

Melbourne, VIC

Feb. 2024 – Nov. 2025

The University of Melbourne

Bachelor of Science in Computing and Software Systems

Melbourne, VIC

Feb. 2021 – Nov. 2023

EXPERIENCE

Sincidium

Associate Software Engineer

Melbourne, VIC

Jan. 2024 – Present

- Recreated frontend and backend **Dockerfiles** for an 87.8% reduction in image sizes
- Sped up build and deployment times by 90%
- Improved dev experience by configuring and crafting a set of linters and opinionated formatters

Software Engineer Intern

Sep. 2023 – Jan. 2024

- Successfully created CI pipeline that is still in use today
- CTO and coworkers appreciated the very well-written and coherent frontend code

n8n

n8n Expert

Remote

Aug. 2022 – Present

- Created helpful video tutorials for the official n8n YouTube channel amassing 1.5k+ views/week per video
- Smoothly managed 3 n8n instances through both AWS EC2 and Oracle Cloud with 2 still actively in use
- Created custom n8n node for a client leading to 100+ user downloads from npm registry in total

The Joinary

Developer

Melbourne, VIC

June 2021 – Present

- Successfully synchronised customer order details between 3 SaaS tools for a large manufacturing client
- Integrated two business-critical platforms for a large ticketing service with over 5000+ participants over two years
- Implemented a business workflow for Hero HQ from ideation and has been used daily for over 2.5 years

PROJECTS

Algorithms in Action | *Open Source, React, CSS, HTML*

July 2023 – Oct. 2023

- Successfully implemented algorithm visualisations for Union-Find and 2-3-4 Trees
- Utilised SCRUM methodology to manage project and meet deadlines

Remote Procedure Call Framework | *C, Make, Valgrind*

April 2023 – May 2023

- Implemented an RPC framework in C with zero memory leaks
- Utilised **Makefile** to automate compilation and linking of source files
- Publicly available for use under MIT license at <https://github.com/d4vidsha/rpc-framework>

INTERESTS

Blog | *Docker, Oracle Cloud, Ghostblog*

December 2022 – Present

- Written articles on an array of topics including technology, music and mathematics
- Has over 5.7k monthly impressions with 300+ unique monthly visitors

Home Lab | *Docker, Linux, Proxmox, LXC, restic, rclone*

February 2021 – Present

- Created a home server to self-host a number of services
- Implemented 3-2-1 backup strategy using Backblaze B2, restic and rclone
- Raspberry Pi 4B runs Pi-Hole (DNS server) and Unbound (DNS resolver) among other services

TECHNICAL SKILLS

Languages: Python, C, JavaScript, TypeScript, Java, Haskell, Prolog, HTML/CSS

Frameworks: React, Next.js, FastAPI

Developer Tools: Git, Docker, Google Cloud Platform, Oracle Cloud, AWS

CLI Tools: vim, nvm, pyenv, npm, poetry, make, gcc, clang, gdb, valgrind, nvim, tmux, restic, rclone