

David Sha

+61-421-695-846 | david@davidsha.me | linkedin.com/in/david-sha | github.com/d4vidsha

EDUCATION

The University of Melbourne

Master of Information Technology in Artificial Intelligence

Feb. 2024 – Nov. 2025

Melbourne, VIC

The University of Melbourne

Bachelor of Science in Computing and Software Systems

Feb. 2021 – Nov. 2023

Melbourne, VIC

EXPERIENCE

Associate Software Engineer

Sincidium

Sep. 2023 – Present

Melbourne, VIC

- Recreate frontend and backend **Dockerfiles** for significantly reduced image sizes
- Improve developer experience using linters, opinionated formatters, and speeding up build times and deployments
- Develop responsive frontend with Next.js
- Develop backend API endpoints with FastAPI

n8n Expert

Freelance

Aug. 2022 – Present

Remote

- Help small to medium-sized businesses create business-critical workflows using an automation app called n8n
- Manage servers hosting n8n instances through AWS EC2, Oracle Cloud, and Google Cloud
- Create custom nodes for n8n to integrate with various APIs
- Create helpful [video tutorials on YouTube](#) to help others learn n8n and programming

Developer

The Joinery

June 2021 – Present

Melbourne, VIC

- Deliver custom software solutions to businesses of all sizes
- Use Zapier, Integromat/Make, and n8n to facilitate business automation
- Became qualified as a Zapier Certified Expert

Private Tutor

Self-employed

Jan. 2019 – Present

Melbourne, VIC

- Tutor students in high school level mathematics (VCE)
- Help students with their assignments and exam preparation
- Create bonds with students and their parents

PROJECTS

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

April 2023 – May 2023

- Implemented a remote procedure call framework in C using sockets in a client-server architecture
- Utilise Makefile to automate compilation and linking of source files
- During development, Valgrind helped to clear all memory leaks and errors
- Official project can be found at <https://github.com/d4vidsha/rpc-framework>

Home Server | *Docker, Linux, Computer Hardware, Proxmox, LXC*

February 2021 – Present

- Create a home server to host various services
- Backup with 3-2-1 backup strategy using Backblaze B2, restic and rclone
- Nextcloud (file hosting), a VPN server, Bitwarden (password manager), and many more!
- Utilise Docker and LXC to containerise services
- Utilise Proxmox to manage containers and virtual machines
- Hardware includes (1) Raspberry Pi 4B, and (2) custom-built server, parts independently sourced
- Raspberry Pi 4B runs Pi-hole (DNS server) and Unbound (DNS resolver) among other services
- Custom-built server runs Nextcloud, Bitwarden, and many more services

TECHNICAL SKILLS

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

Frameworks: Node.js, React, Next.js

Developer Tools: Git, Docker, Google Cloud Platform, Oracle Cloud, AWS, Visual Studio Code

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