David Sha

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EDUCATION

The University of Melbourne   Feb. 2021 – Nov. 2023
Bachelor of Science in Computing and Software Systems   *Melbourne, VIC*

EXPERIENCE

Software Engineer Intern   Sep. 2023 – Present
Sincidium   *Melbourne, VIC*
- Developed the frontend of a web application using TypeScript and React
- Developed CI pipeline using GitHub Actions following best practices

n8n Expert   Aug. 2022 – Present
Freelance   *Remote*
- Help small to medium-sized businesses create business-critical workflows using an automation app called n8n
- Managed servers hosting n8n instances through AWS EC2, Oracle Cloud, and Google Cloud
- Created custom nodes for n8n to integrate with various APIs

Developer   June 2021 – Present
The Joinary   *Melbourne, VIC*
- Delivered custom software solutions to businesses of all sizes
- Used Zapier, Integromat/Make, and n8n to facilitate automation
- Became qualified as a Zapier Certified Expert

Private Tutor   Jan. 2019 – Present
Self-employed   *Melbourne, VIC*
- Tutor students in high school level mathematics
- Help students with their assignments and exam preparation
- Create bonds with students and their parents

PROJECTS

Remote Procedure Call Framework | *C Programming Language*   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
- 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
- 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, MySQL
Frameworks: React, Node.js, WordPress
Developer Tools: Git, Docker, Google Cloud Platform, Oracle Cloud, AWS, Visual Studio Code
Packages: nvm, pyenv, npm, poetry, make, gcc, clang, gdb, valgrind, vim, tmux