

# David Sha

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## EDUCATION

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### The University of Melbourne

*Bachelor of Science in Computing and Software Systems*

Feb. 2021 – Nov. 2023

*Melbourne, VIC*

## EXPERIENCE

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### Software Engineer Intern

*Sincidium*

Sep. 2023 – Present

*Melbourne, VIC*

- Developed the frontend of a web application using TypeScript and React
- Developed CI pipeline using GitHub Actions following best practices

### n8n Expert

*Freelance*

Aug. 2022 – Present

*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
- Created helpful video tutorials on YouTube to help others learn n8n and programming

### Developer

*The Joinary*

June 2021 – Present

*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

*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

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### 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

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**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:** nvm, pyenv, npm, poetry, make, gcc, clang, gdb, valgrind, vim, tmux, restic, rclone