

David Sha

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EDUCATION

The University of Melbourne <i>Master of Information Technology in Artificial Intelligence</i>	Melbourne, VIC Feb. 2024 – Nov. 2025
The University of Melbourne <i>Bachelor of Science in Computing and Software Systems</i>	Melbourne, VIC Feb. 2021 – Nov. 2023

EXPERIENCE

Amazon Web Services (AWS) <i>Software Development Engineer</i>	Sydney, NSW Apr. 2025 – Present
<ul style="list-style-type: none">• So good they wanted me back immediately. Working with Rust and Java now, and building with TypeScript React.	
<i>Software Development Engineer Intern</i>	Dec. 2024 – Feb. 2025
<ul style="list-style-type: none">• Developed a new feature in the internal console, providing better visibility to EC2 instances and reducing operator's production issue RCA time from 15 minutes to 1 minute per incident (20-30 incidents/day).• Delivered an efficient solution to scanning log messages for a high-availability internal service, by enabling long polling and caching of CloudWatch Log Insights queries.• Integrated CloudWatch service to two existing internal services using GraphQL, AWS SDKs and Coral models.	
Sindy Labs <i>Founding Software Engineer</i>	Melbourne, VIC Jan. 2024 – Jul. 2024
<ul style="list-style-type: none">• Reduced Docker image sizes for frontend and backend services, achieving a total size 1/8th of its original size.• Introduced Docker BuildKit's multi-stage builds, leading to 10× speedup in build times.• Proposed and implemented company-wide policy on linters and formatters (ESLint, Black, isort, Flake8, mypy).	
<i>Software Engineer Intern</i>	Sep. 2023 – Jan. 2024
<ul style="list-style-type: none">• Introduced a new CI pipeline in GitHub repository to automate backend API tests using pytest.• Led the design and implementation of a Next.js dashboard to support the flagship product.	
The Joinary <i>Developer</i>	Melbourne, VIC June 2021 – June 2024
<ul style="list-style-type: none">• Synchronised customer order data between 3 SaaS tools using Zapier for a large manufacturing client.• Integrated two platforms for Lüp using Python and AWS Lambda syncing over 5000+ participants over two years.• Implemented a business workflow from ideation for Hero HQ which has since been used daily for over 3 years.	

PROJECTS

Scheduler Web Application (Link) <i>Fullstack, TypeScript, FastAPI, Vite, Docker</i>	June 2024 – Present
<ul style="list-style-type: none">• Active maintainer of an open source task management solution with 30+ stars on GitHub.• Implemented a CI/CD pipeline for automated testing and deployment utilising self-hosted runners, reducing manual overhead and ensuring code stability across releases.• Maintained a comprehensive backlog of tasks using GitHub Projects, facilitating clear project direction.	
Home Lab <i>Kubernetes, Docker, Linux, Proxmox, Restic, Rclone</i>	Feb. 2021 – Present
<ul style="list-style-type: none">• Created a home lab to self-host a number of apps i.e. password manager, file hosting, VPN server.• Implemented 3-2-1 backup strategy using Backblaze B2, restic, rclone and a Raspberry Pi.• Migrated frequently-used services from Docker to Kubernetes using Helm charts for scalability concerns.	
Certified Expert at n8n <i>Python, JavaScript, YouTube, Oracle Cloud, AWS</i>	Aug. 2022 – Apr. 2024
<ul style="list-style-type: none">• Created content (tutorials) for the official n8n YouTube channel amassing 1.5k+ views per week per video.• Managed 3 n8n instances through both AWS EC2 and Oracle Cloud – 2 instances still actively in use.• Developed custom n8n node for a client leading to 200+ user downloads from npm registry in total.	

TECHNICAL SKILLS

Languages: Python, C, Java, Kotlin, JavaScript/TypeScript, Haskell/Prolog
Frameworks: FastAPI, Next.js, TailwindCSS
Developer Tools: Kubernetes, Docker, React, Git, GNU make, Valgrind, AWS, Oracle Cloud, n8n, Restic