

# Pawan Sedara

INFRASTRUCTURE & SYSTEMS ENGINEER

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## Professional Summary

Infrastructure and backend-focused engineer with hands-on experience building self-hosted platforms, backend services, and Linux-based production environments. Strong command-line proficiency with practical experience in Docker, networking, deployment workflows, monitoring, and operational troubleshooting.

Founder and lead developer of AussieLK, a request-based sourcing platform handling backend architecture, authentication systems, infrastructure deployment, and operational tooling. Interested in infrastructure engineering, backend systems, Linux administration, and reliable production environments.

## Experience

### AussieLK

Melbourne, Australia

FOUNDER & LEAD DEVELOPER

2025 – Present

- Designed and developed a request-based sourcing platform connecting Australian products with customers in Sri Lanka.
- Built backend systems for authentication workflows, request handling, administrative tooling, and operational management using Next.js, Express.js, and Prisma ORM.
- Integrated infrastructure tooling including Dockerized services, deployment workflows, monitoring, notifications, and operational automation.
- Managed deployment infrastructure, backend integrations, service reliability, and ongoing production environment maintenance.
- Designed the platform as a real-world operational business system with a focus on reliability, maintainability, and scalable request handling.

## Projects

### Self-Hosted Infrastructure Environment

Personal Infrastructure Project

LINUX INFRASTRUCTURE & SELF-HOSTED SERVICES

- Built and maintained public-facing VPS infrastructure using Docker, WireGuard, Caddy, and Linux-based operational tooling.
- Deployed and managed self-hosted services including SearXNG and Forgejo with reverse proxy routing and service isolation.
- Configured firewall rules, SSH access management, containerized services, and secure networking workflows in terminal-first Linux environments.
- Performed infrastructure monitoring, troubleshooting, operational maintenance, and deployment validation across hosted services.

### P.A.T.H. — Prime Accelerated Throughput Handler

Personal Project

GPU COMPUTE & SYSTEMS ENGINEERING PROJECT

- Developed a high-performance compute project on Apple Silicon focused on GPU-accelerated segmented prime processing.
- Built benchmarking and validation workflows to ensure stable long-duration compute execution under constrained hardware environments.
- Optimized execution for constrained hardware environments while balancing throughput, thermal limits, and operational stability.
- Implemented system-level workflows using Swift and Objective-C++ on macOS.

## Technical Skills

**Infrastructure** Linux, Docker, WireGuard, SSH, Caddy, reverse proxies, firewall management

**Backend** Node.js, Express.js, Next.js, Prisma ORM, REST APIs, authentication systems

**Operations** Monitoring, deployment workflows, diagnostics, infrastructure troubleshooting, CLI-first environments

## Education

### Kent Institute Australia

Melbourne, Australia

BACHELOR OF INFORMATION TECHNOLOGY

2025 – Present

### RMIT University

Melbourne, Australia

BACHELOR OF INFORMATION TECHNOLOGY — ENTERPRISE SYSTEM DEVELOPMENT

2023 – 2025

### Edith Cowan College

Colombo, Sri Lanka

DIPLOMA OF COMPUTER SCIENCE

2022 – 2023

## Certifications

**RHCSA** Red Hat Certified System Administrator — In Progress

**Docker** Docker Foundations Professional Certificate — Docker Inc.

**GitHub** GitHub Career Essentials — GitHub

## Project Links

**Portfolio** <https://hexcode.au>

**GitHub** <https://github.com/HexCodeYT>

**AussieLK** <https://aussielk.com.au>

**Search Infrastructure** <https://search-public.hexcode.au/>