



Nathan Woodburn

contact@nathan.woodburn.au | 0493129562 | Canberra, ACT

📧 @nathanwoodburn | [in](#) @nathanwoodburn | [🌐](#) nathan.woodburn.au

Summary

Technical Support Specialist and System Administrator specializing in Linux environments, Docker, and DNS management. Proven ability to deploy and maintain secure server environments, including Proxmox hypervisors and VLAN-isolated networks, while leveraging Python for automation and service deployment. Expertly troubleshoot critical domain and network issues, providing front-line support and collaborating with engineering teams for continuous improvement.

Experience

Technical Support Specialist

Namebase - Remote | Oct 2022 - JUN 2025

- Provided technical support for users, focusing on domain setup, configuration, and troubleshooting.
- Worked with engineering teams to report bugs and suggest product improvements.
- Diagnosed complex DNS issues including nameserver propagation and zone file errors.
- Gained hands-on experience with recursive and authoritative DNS, DNSSEC, and decentralized naming.
- Engaged with the community through social platforms and represented Namebase at conferences.

Small Business Owner

Nathan 3D Printing Service | Feb 2020 - Dec 2023

- Operated a custom 3D printing and CAD design business independently.
- Handled client communication, design iteration, and order fulfillment.
- Built end-to-end project management and technical design skills.

Audio Production Volunteer

1WAY FM | Feb 2021 - Dec 2021

- Recorded, edited, and produced audio content for community radio broadcasts.
 - Supported the production team in day-to-day technical operations.
 - Gained practical skills in audio engineering and collaborative media work.
-

Education

Bachelor of Computing

Australian National University | 2022 - Present

- Currently pursuing a Bachelor of Computing with a specialization in cybersecurity.
 - Gaining hands-on experience in network security, system design, and secure software development.
 - Building a strong foundation in computer science principles, programming, and system architecture.
 - Collaborating on group projects and labs to apply theoretical knowledge to real-world challenges.
-

Discovering Engineering

Australian National University | YearS 11 & 12

- Completed an enrichment program introducing core engineering disciplines and technical concepts.
 - Explored CAD modeling, design thinking, and practical problem-solving through workshops and case studies.
 - Gained early exposure to engineering tools and technical communication, laying the groundwork for later technical studies.
-

Home Educated

Self-Directed Learning

- Cultivated time management, self-discipline, and critical thinking skills crucial for success in tech.
 - Developed a strong passion for technology, programming, and system administration through independent exploration.
 - Built custom applications, managed servers, and solved technical challenges in a flexible learning environment.
-

Projects

Server Lab

Proxmox, Networking, Linux, DNS

- Maintain a personal physical server running Proxmox hypervisor.
 - Host multiple virtual machines across three VLANs with isolated firewalls for enhanced security.
 - Provide DNS and recursive resolver hosting services for external users.
 - Host a suite of self-hosted services such as Gitea, Authentik, Vaultwarden and Nextcloud.
-

HNS DoH

DNS, Handshake, DoH, Distributed Systems, Linux

- Manage a distributed Handshake DoH resolver network spanning six independent nodes.
 - Administer four nodes and collaborate with two external operators on updates, patches, and troubleshooting.
 - Ensure uptime and resiliency across geographically distributed infrastructure.
-

Fire Wallet

Python, Handshake, Plugin Architecture

- Developed a modular Python-based Handshake wallet with plugin support for extensibility.
 - Presented at HandyCon 2024 and 2025, showcasing usability improvements and HNS site resolution.
-

Skills

Programming & Development

- **Python 3:** Proficient in building web services and automation tools; experienced with libraries such as Flask, requests, and asyncio.
 - **C & Java:** Applied in university coursework and labs for systems programming, algorithms, and object-oriented design.
 - **C#:** Experienced in building Windows applications, including debugging and testing since 2016.
-

Networking & Security

- **DNS & DNSSEC:** Skilled in managing DNS zones, records, and DNSSEC; experienced with both authoritative and recursive resolvers.
 - **Linux System Administration:** Manage cloud and physical servers, using the command line for scripting, security, and package management.
 - **Server Infrastructure:** Operate a dedicated server running Proxmox; manage virtual machines across VLANs with separate firewalls to enhance isolation and security.
-

Technical Support & Communication

- **Technical Support:** Deliver front-line technical assistance, troubleshoot software/platform issues, and communicate clearly with users.
 - **Community Engagement:** Active contributor and presenter within the Handshake and blockchain communities.
 - **Tools:** Git, Docker, NGINX, SSH, Bash scripting.
-

Conferences

Presenter – HandyCon 2025

Online | March 2025

- **Firewallet Updates & How to Resolve HNS Sites** – Presented new features and usability improvements in FireWallet, including user-friendly Handshake resolution methods.
 - **Building the Future of Handshake: Advancing Wallets & Ecosystem Development** (co-presented with Rithvik Vibhu) – Discussed strategies for wallet development, improving developer tooling, and enhancing the decentralized web experience on Handshake.
-

Judge & Speaker – Onchain Names & Identity Hackathon Vietnam | April 2024

- Invited judge for blockchain-focused hackathon entries using Handshake and decentralized identity tools.
 - Delivered a talk comparing Handshake DNS with traditional DNS systems, highlighting benefits of decentralized roots for security and censorship resistance.
-

Presenter – HandyCon 2024 Online | March 2024

- **FireWallet** – Showcased a modular Handshake wallet written in Python, designed with plugin support to enable extensibility and developer customization.
-

Presenter – HandyCon 2023 Online | March 2023

- Presented a technical walkthrough on launching websites with Handshake domains.
 - Covered HTTPS setup using DANE to eliminate reliance on traditional certificate authorities.
-