Khoi Nguyen

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SUMMARY

Computer Science graduate with experience in full-stack development, infrastructure automation and agile team collaboration. Passionate about building optimised, efficient software and proactive in handling complex technical problems in production environments.

EDUCATION

University of New South Wales — Feb 2021 — Sep 2024
Bachelor of Science (Computer Science) — *WAM: Distinction*

- Notable Coursework: Data Structures and Algorithms, Software Eng Fundamentals, Advanced C++ Programming, Security Engineering, and System Design
- Extra-curriculars: Creative Subcommittee (2022-2023) for CSESoc (Computer Science and Engineering Society) Contributed to the production of cross-platform content; merchandise and design, reaching more than 9,500 students

WORK EXPERIENCE AND PROJECTS

ESG Metrics Management System — Feb 2024 — Apr 2024
Scrum Master | Front-end Developer | github.com/haidara02/ecometrics | maple-c40cf.web.app

- Spearheaded the design and implementation of web components with React MUI and Typescript
- Coordinated tasks for a 4-person front-end team on Jira across planning, production and demonstration stages to deliver a responsive, user-friendly interface with 100% feature coverage from client specifications
- Designed and optimised a dynamic data grid, enhancing the application's analytics visualisation and management capabilities, reducing load times by 20%

Homelab Infrastructure Project — Sep 2024 — Present
Proxmox, Docker, OpenMediaVault, Portainer | github.com/haidara02/homelab

- Deployed and managed a Proxmox hypervisor with custom Linux container and virtual machine setups, optimising data transfer performance and power efficiency using repurposed hardware
- Maintained isolated test environments for secure experimentation, containerisation, and network traffic management
- Configured Cloudflare Tunnel and NGINX proxy manager for remote control and reverse proxying

Full-stack Social Media Web App — Sep 2024 — Present
Typescript web app built with Next.js 13 and Supabase | github.com/haidara02/tidoh

- Designed and implemented a modular post and timeline system using Supabase's real-time subscriptions and row-level security, enabling user-specific content feeds with live updates
- Leveraged Supabase for backend infrastructure and query authentication
- Experience with relational database schema design, SQL querying, and data manipulation using PostgreSQL

DNS Client and Resolver — Jun 2022 — Sep 2022
Python | github.com/haidara02/dnspython

- Designed and implemented a DNS Client and Resolver script in Python to handle recursive queries, DNS record parsing and response validation using UDP sockets
- Developed caching and referral chaining features, improving the efficiency of domain name resolution
- Gained proficiency in network programming, DNS protocols and recursive algorithms through hands-on experience constructing and troubleshooting

Coles — Aug 2021 — Present
Team Member (Nightfill)

- Ensured accurate restocking of shelves, demonstrated ability to meet tight deadlines in a fast-paced environment
- Contributed to a collaborative team while consistently providing quality customer service

ADDITIONAL INFORMATION

Skills: Python, C/C++, Git, Linux, Java, JavaScript, TypeScript, PostgreSQL, React, Next.js, Adobe Suite
Languages: Native proficiency in English and Vietnamese
Interests: Electronics, Bouldering, Video Editing, Visual Arts (ARTEXPRESS 2021)