

NG JUN XIANG

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SUMMARY

Backend Engineer with nearly 10 years of programming experience. Proficient in **Golang, Rust, and Python**, with expertise in **performance optimization, security, and scalable backend systems**. Passionate about **open-source software** and efficient, minimalistic code. Strong background in **DevOps, containerization, and Linux-based systems**.

SKILLS

Rust, Go, Python, Bash, Next.js, TypeScript, HtmX, C#, SQL, Docker, Terraform, Linux, Networking, CI/CD, Git

EXPERIENCE

Head Systems Administrator

NYP InfoSec (Cybersecurity Club)

April 2024 - Present, Singapore

- Led the configuration and management of club infrastructure, utilizing **Terraform** to automate server provisioning, reducing setup time by **90%**.
- Created a **CTF repository template** using **Waku**, enabling the team to start new challenges in **half the time** compared to previous manual setups.
- Implemented **CI pipelines**, decreasing deployment errors by **13%** and streamlining the development cycle.
- Developed and enforced best practices for **version control**, including branch protection and PR flow, increasing code quality and reducing merge conflicts by **25%**.
- Managed infrastructure for Lag n Crash (LnC) CTF 2025 that supported **500 players with 0 downtime**.
- Authored **5+ detailed documentation** covering system configuration, development processes, and best practices, improving on-boarding efficiency and team knowledge sharing.

PROJECTS

Technical Lead - Waku

Open-source Project • wakux.ngjx.org • March 2024 - Present

- Developed **Waku**, an open-source CLI tool with **32 stars** on GitHub, reducing project setup time by **60%** for developers across Linux, Windows, and macOS.
- Created an **extensible system for community styles**, enabling developers to quickly generate tailored templates for micro-services, full-stack projects, and more.
- Enhanced the developer experience, with **over 100 downloads** and **3 community contribution** within the first 6 months of release, streamlining project creation for developers globally.
- Implemented **Go's text/template library** to provide strong templating capabilities, allowing for rapid, customizable project creation with minimal setup.

Technical Lead - Sharkalyze

PolyFinTech100 API Hackathon 2024_ Team SHARKECH • github.com/caffeine-addictt/sharkalyze • August 2024 - August 2024

- Developed the entire **Rust-based web scraper** for **Sharkalyze TrustZone**, capable of processing up to **200,000 URLs** with high parallelization and efficiency.
- Designed and implemented **parallel processing** using **Tokio** and semaphores, handling up to **500 concurrent HTTP requests** per batch and processing **20 URLs at a time**.
- Advised the team on technical decisions, providing guidance on system architecture and performance optimization.
- Engineered a **65-parameter vector extraction** for each URL, feeding into an AI model for **scam risk assessment** and fraud detection.

EDUCATION

Diploma in Information Technology

Nanyang Polytechnic

CERTIFICATIONS & ACHIEVEMENTS

Linux and SQL

Google • Apr 2024

AWS DeepRacer League Finalist

Amazon Web Service (AWS) • 2021