

PENGHIAN ANG

+65 9739 3952 | penghian@gmail.com | [LinkedIn](#) | [GitHub](#)

Bilingual: English / Mandarin Chinese

SUMMARY

Blockchain infrastructure and DevOps engineer with 5+ years of experience in validator node operations, cloud infrastructure, and production systems. Managed blockchain nodes across 10+ protocols at Crypto.com. Built production cloud solutions and monitoring automation at Tencent. Delivered public-sector infrastructure as code at Thoughtworks. Experienced in institutional client support, incident management, and cross-functional stakeholder communication. CKA and AWS Solutions Architect certified.

SKILLS

Blockchain: Solana, TON, Cosmos (Neutron, Fetch.ai, Vara), Celestia, Oasis, Conflux, NEO3, ZetaChain | validator and RPC node operations | staking infra

Cloud & IaC: AWS, GCP, Azure, Tencent Cloud | Terraform, Ansible

Containers & CI/CD: Docker, Kubernetes (CKA), Helm | GitHub Actions, Azure DevOps, Jenkins, ArgoCD

Data & Observability: Snowflake, Prometheus, Grafana, Datadog, ELK, Splunk, PagerDuty

Scripting & Automation: Python (FastAPI, Flask), Bash, JavaScript

Integrations: REST APIs, Slack, Calendly, Glean, Messari

Security & Compliance: SIEM, MAS TRM, incident response, RCA, post-mortems

AI Tooling: OpenAI API, Claude Code, Cursor, n8n, agentic patterns (tool orchestration, context management), AI-assisted development workflows

PROFESSIONAL EXPERIENCE

Cold Storage Engineer III | Coinbase | Jan 2025 to Present

- Built pre-call automation integrating Calendly, Snowflake, Datadog, and Slack to auto-surface institutional client context (transactions, duress status, identity, approver eligibility) before high-stakes approval calls.
- Automated cold-to-hot wallet balance restoration with multi-source enrichment (Snowflake, Datadog, Glean, Messari) via Slack, reducing manual investigation and cutting team AI token spend by \$500 to \$1,000 USD per month.
- Approved high-value institutional cold storage transactions and conducted video verification calls under Coinbase Prime and Custody operational protocols.
- Provided white-glove support to institutional clients on staking, cryptographic, and transaction issues across multiple chains.
- Operated in 24x7 global rotation under strict compliance and security standards. Partnered with Security, Product, and Engineering on operational improvements.

Senior Blockchain Security DevOps Engineer | Crypto.com | Dec 2023 to Jan 2025

- Provisioned and operated validator and RPC nodes across TON, Conflux, Celestia, Oasis, Fetch.ai, NEO3, Neutron, ZetaChain, and Vara including upgrades and incident response.
- Built node deployment pipeline using Terraform, Docker, Ansible, and Azure DevOps CI/CD with auto-pull of updated container images.
- Standardized Cosmos-family deployments by consolidating multiple Ansible playbooks into one modular template, reducing rollout time for new chains.
- Built developer environment POC: Terraform-provisioned Azure VMs accessed via Teleport from VS Code Remote, with automated idle-instance shutdown after 6pm to reduce developer cloud spend.
- Wrote custom Prometheus exporters for chain-specific node health monitoring.

DevOps Engineer | Tencent | May 2022 to Dec 2023

- Primary point-of-contact for PUBG Mobile production infrastructure: 6,000+ VMs supporting 4M to 10M daily concurrent users.
- Reduced alert noise from 600+ rules to 140 actionable alerts by reclassifying and rewriting system and network monitoring logic.
- Built FastAPI-based alert automation integrating Bash scripts and CI/CD pipelines for incident auto-triage and WeCom responder notification.
- Solution presented to the Director of Tencent Overseas Games and adopted as best-practice reference across teams.

DevOps Engineer | UP DevLabs Pte Ltd | Oct 2021 to May 2022

- Managed environments across AWS, Aliyun, and Tencent Cloud. Built CI/CD pipelines for repeatable deployments.
- Implemented ELK Stack for developer self-service log search, reducing ops support load.
- Established Grafana and Prometheus monitoring for system health and capacity planning.

System Analyst | Kenrich Partners Pte Ltd | Jul 2021 to Oct 2021

- Day-1 phishing incident response. Coordinated with legal counsel (Rajah and Tann) and performed root cause analysis.
- Led MAS TRM compliance initiatives: asset tracking, system hardening, SIEM setup.
- Migrated on-prem infrastructure to Azure.

SNOC Engineer | Government Technology Agency (GovTech) | Nov 2020 to Jul 2021

- Monitored and maintained uptime for critical government systems using AWS CloudWatch, Grafana, Splunk, and SolarWinds.
- Supported real-time incident triage, root cause analysis, and cyber threat detection for national digital services.

NOC Engineer | Netpluz Asia Pte Ltd | Feb 2020 to Nov 2020

- Provisioned and troubleshot circuits (Baccess, GPON, MetroE) and configured Cisco and Sophos network devices.
- Built Python automation tools to streamline operations, reducing manual ITSM reporting by 80%.

PROJECTS

Site Reliability Engineer | Valigator | (Independent contract, 2025)

- Built production-grade Solana staking infrastructure for a white-glove validator service.
- Authored Ansible playbooks to automate validator provisioning, upgrades, and monitoring setup.
- Developed a custom Solana Node Exporter integrated with Prometheus and Grafana dashboards.

Senior Infrastructure Support Engineer | Thoughtworks | (Independent contract, 2024 to 2025)

- Designed and deployed enterprise-scale cloud infrastructure using Infrastructure as Code, improving scalability and resilience.
- Led end-to-end build and maintenance of SNTC.org.sg, a public good project supporting Singapore's special needs community.
- Delivered government-requested website updates within 2 weeks, ensuring compliance and uninterrupted service.
- Partnered with CTO/CIO/COO stakeholders to align technical delivery with organizational goals.

Open Source: github.com/angpenghian

- **Agent Times:** x402 pay-per-request news API designed for AI agents to consume; Node.js, Express, Docker, SearXNG, SQLite on DigitalOcean. 28,000+ articles indexed across 1,100+ RSS feeds; received first real USDC payment on Base mainnet.
- **solana-ansible-kit:** Production-grade Ansible automation provisioning Solana validator fleets with security hardening, performance tuning, and zero-downtime upgrades.
- **solana-repro-builds:** Automated CI/CD pipeline (GitHub Actions) publishing reproducible Solana validator binaries with hermetic Docker builds and checksum verification.
- **solana-exporter:** Prometheus exporter (Python/FastAPI) for Solana validator observability, exposing 26+ metrics with a 21-panel Grafana dashboard.

CERTIFICATIONS

- CKA: Certified Kubernetes Administrator (CNCF)
- HashiCorp Certified: Terraform Associate
- AWS Certified Solutions Architect Associate
- AWS Certified Cloud Practitioner
- Tencent Cloud Solutions Architect Associate Engineer
- Tencent Cloud SysOps Associate Engineer
- Microsoft Certified: Azure Fundamentals (AZ-900)
- Sophos Certified Engineer

EDUCATION

Diploma in Infocomm and Digital Media (GPA 3.9), Temasek Polytechnic
Higher Nitec in Information Technology, ITE College West