



SHEN NAN, WONG (黄樂南)

People, Purpose, Process

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Introduction

Software engineer with 5+ years building scalable systems. Led data infrastructure serving 6K+ MAU, reduced onboarding time by 90%, and secured \$350K in funding. Expertise in full-stack development, DevSecOps & AI/ML applications.

Education

Master of Business Administration (MBA)

Quantic School of Business & Technology | Oct 2022 - Jul 2024

Awarded Powell Impact & Sustainability Scholarship

Specialist Diploma, Applied AI

Nanyang Polytechnic | Apr 2023 - May 2024

École 42

SUTD | June 2023 - Present

Intensive software engineering programme.

Advanced Certificate in Learning & Performance (ACLP)

SUSS | Oct 2020

Bachelor of Science (Honours) in Projects & Facilities Management

College of Design & Engineering, NUS | Aug 2012 - 2016

- Dean's List (AY 2015/2016)
- Final-Year Thesis: Analysis of Virtual City Development for the VirtualSG project.
- NUS Hack'n'Roll 2013, Best Freshman Project

College Diploma

Hwa Chong Institution Singapore, SG | 2004-2010

- Art Elective Programme Scholarship / Bicultural Studies Special Programme
- Champions, Future Problem-Solving Regional Finals

Skills

Languages: TS, Python, Go
Frontend: React, NextJS
Backend: Node.js, FastAPI
DBs: MongoDB, Postgres, CockroachDB, Redis
Data: Snowflake, Airflow
Cloud: AWS, GCP

Professional Experience

Iterative

- Investments / Engineering

Jun 24 - Present

Head of Engineering (Automations, Data Engineering, Applied AI)

Staff-level engineer leading the design & implementation of firm-wide data, software, IT & automation infrastructure powering portfolio operations for an early-stage venture fund. Conduct technical due diligence on deep tech & software startups & advise portfolio CTOs on engineering strategy.

Built an [internal tooling suite](#) across deal flow, diligence, portfolio analytics:

- MCP Backbone: Built a Slack bot that routes natural-language queries to multiple tool servers (filesystem, Notion, Airtable). LLM routing via OpenRouter, code execution via E2B sandboxes, tracing via Langfuse, workflow runner with Slack approval gates.
Built with: TypeScript, Slack Bolt (Socket Mode), Docker, various MCP servers
- Founder Knowledge Base: Two-tier AI pipeline – classifier tags Slack threads by topic, Gemini 2.5 Pro synthesizes into searchable articles. Pluggable storage (GCS/S3/R2).
Built with: Next.js, Supabase Postgres, GCS
- Voice Interview System: ElevenLabs voice agent conducts founder screening calls, fetches application data from Airtable, delivers transcripts to Turso via webhooks.
Built with: Next.js, ElevenLabs, Airtable, Turso (libSQL)
- Smart Network: Hybrid search over founder profiles – query classifier routes to parallel SQL + *pgvector* cosine similarity, results merged by weighted ranker.
Built with: Next.js, Postgres + pgvector, OpenAI embeddings, Groq
- Memo Generator: Multi-source research pipeline (LangGraph agents for competitive analysis + market sizing via Perplexity), generates IC memos, exports to Notion.
Built with: Hono, Next.js, LangGraph, Perplexity, Notion API

Partior

- Platform / DevSecOps

Jul 23 - Feb 24

Senior Software Engineer

I implement the DevSecOps, GRC & CI/CD platform to enable secure delivery of cross-border payment functionality through the Quorum protocol layer.

- Created a *git*-based orchestrator to manage enterprise repository & organisation settings, ensuring governance, compliance & risk analysis. Led the development of an internal platform to aggregate SAST/DAST scans, logs, events & manage artefact lifecycle. Supports hundreds of repos across 8 teams.
Built with: Python, GitHub Actions, Backstage, Jira, Artifactory, Codacy
- Provisioned self-hosted runners across various public clouds for the engineering team & maintained continuous uptime for CI/CD processes.
Built with: Kubernetes, Helm/Helm file, Docker, AWS / GCP
- Developed a client-facing CLI that generates blockchain specification based on individual client cloud & network configurations. The tool is currently used by major clients including JPMorgan Chase, DBS, Standard Chartered etc.
Built with: Go, YAML, Vault, ESO, cert-manager

Left to complete MBA & move into Venture Capital / Startups

ZOLO

- B2B AI Software-As-A-Service

Apr 23 - Nov 23

Co-founder, ex-CTO

Architected the company's core product - an all-in-one platform for food suppliers. We help suppliers reduce errors, save time & minimise cost & wastage associated with inefficiencies of manual order processing. Piloted successfully with Indoguna, FoodXervices & CSTay (USD13k MRR) within 3 months, with talks to expand services regionally to Thailand & Dubai & secured USD \$350k pre-seed from Antler, Gharage Ventures, Protégé Ventures & NTUitive. Managed an offshore team from Pakistan & India.

Built with: NextJS, Cohere, OpenAI, pgvector, nextAuth

Test: Jest, Cypress
Network: K8s, Docker, Vault

Moved to tech advisory role to focus on work in Partior.

Awards, Accolades & Certifications

Circles

- Platform / [Circles X](#)

Oct 22 - Jul 23

Senior Software Engineer, Product Lead

Certifications:

- Certified Solution Architect Associate (SAA) | AWS
- Project Management Professional (PMP) | PMI
- Certified Scrum Master (CSM) | Scrum Alliance

Led a portfolio of [three software products](#), formalised engineering practices, including the training & development of a team of five engineers & drove tight collaboration between engineering, product & design. I also helped develop what became [Jetpac](#).

- Built an in-house Customer Data Platform (CDP), enabling real-time, hyper-personalised CX via segmented omni-channel communication.
Built with: Golang, Airflow, AWS SNS, Snowflake

Hackathons:

- DBS Hack2Hire 2021 (Blockchain) | 3rd Place
- GrabHackForGood 2022 (ClimaTech category) [\[link\]](#)
- Lablab.ai Stable Diffusion Hackathon 2022 [\[link\]](#)
- Search AI Hackathon 2022 by Cohere [\[video\]](#)
- Judge, NUS Hack'n'Roll '24

- Designed an API sandbox for engineers to mock APIs with customizable responses, incl. a proxy gateway for speedier prototyping with the partner telcos.
Built with: Go, Diameter Protocol (Gx, Gy)

- Built a module-federated platform with RBAC to orient potential customers & pre-sales consultants, reducing onboarding time from days to just minutes.
Built with: Federated frontends, Express / Node.js, React Native, auth0, PWA

Left for opportunities in the FinTech space.

- [Labs \(R&D\)](#)

Product Engineer, Team Lead

Feb 22 - Oct 22

Volunteering

Better.SG

• Product Engineer

- RecycleGoWhere [\[link\]](#)
Raised \$10k from SG Eco Fund 2022; project highlighted by MSE at the Joint Segment on Singapore Green Plan 2022. Developed the MVP in NextJS, Leaflet, Firebase

• Founding Engineer

- Masses [\[link\]](#)
Masses are a way for us to vote on social issues so we can understand how our community feels about the questions that matter. Developed the MVP in Flutter

I was one of the founding engineers in the R&D team, which was then merged with the core engineering team in 2023. I hired more than half of the engineers.

- Built a full-stack application with a focus on frontend development & mobile app integration, supporting 6,000 MAU. Launched as part of [Pokemon x Circles.Life "Dare To Roam"](#) campaign, along with a specialized race-day companion app I built for 2,000 concurrent users. Awarded "Travel Product of the Year" by Asian Telecom.
Built with: Nextjs, Supabase, Amplify
- Engineering lead for a B2B2C solution to streamline corporate plan management for >30 accounts, generating over \$30k MRR. Engaged clients in Malaysia & Indonesia & guided integration strategies with pre-sales teams.
Built with: React, Express / Node.js, Jest, Cypress, Storybook
- Developed workflow automation tools to improve testing, type coverage & observability. Wrote RFCs to support migration from Jenkins to Bitbucket for the wider engineering community. Reviewed MLOps for credit scoring & customer segmentation models.
Built with: Kubernetes, Docker, AWS - including Sagemaker, Snowflake, Airflow

ADPList

- Mentor

JuniorDevSG

- Software Engineering Mentor

MINDEF / Singapore Armed Forces (SAF)

- 42nd Battalion, Singapore Armoured Regiment
Officer Commanding

May 20 - June 21

In my penultimate tour, I spearheaded innovation & tactical development in the new Hunter Armoured Fighting Vehicle (AFV) platform. I also managed a company of 150 & was responsible for their training, discipline & operational readiness.

- Inaugurated the 1st operational Hunter AFV Battalion in Singapore.
- Awarded Exemplary Innovator (Team) for operationalizing the Hunter AFV.
- Awarded Best Combat Company for tactical performance.

Left at the end of my scholarship bond to pursue a career in tech.

- The Singapore Army
Various Roles

Feb 11 - Mar 18

I led training transformation for up to company-level tactical training. I was also in the core project group for the Army's Next-Gen Combat Vehicle (Hunter AFV), which we operationalized in 2021. Some achievements include:

- Deployed 200 troops to Oberlausitz, Germany as the XO for Ex Panzer Strike.
- Organising Secretariat, NDP 2019 (Mobile Column to Heartlands), coordinating the largest military mobile column displays with national agencies (TP, SPF, HTA)
- Graduated Phase I of Ranger School, an elite small-unit leadership course.

Awarded SAF Academic Scholarship in 2011.

Projects

NotionPlus.xyz

- Engineer

All things Notion and more - building templates, extensions, plugins & other software.

Tech Channels

- Creator

Built several popular telegram communities to provide updates on engineering, DevSecOps & AI/ML.

Others

Many other ideas, mini projects & experiments on <https://byshennan.com>

