

Ng Guoyou

ng.guoyou[at]gmail.com

github.com/gyng

linkedin.com/in/guoyou

Singapore

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Engineering leader specialising in platform engineering for AI, web, and content systems, combining team leadership with hands-on technical delivery. Experience across media, enterprise AI, financial services, and government.

Experience

SPH Media

Head, Digital Platform, Singapore

Apr 2024–Present

- Lead 15 engineers and two managers across four teams spanning AI platforms, web application platforms, news content platforms, and B2B content services.
- Led teams delivering a shared generative AI platform combining a large language model (LLM) gateway, agent workflows with tool integrations, and enterprise knowledge search for newsroom research.
- Lead the rollout of enterprise AI tools and model access for engineering and business teams, spanning Amazon Bedrock, Google Cloud AI services, and Claude Enterprise.
- Built a developer access platform for identity and access management (IAM), automating access governance through provisioning, policy enforcement, approval workflows, and audit logging.
- Own strategy and delivery for WebCore, the shared web application platform supporting 15+ publications and millions of daily page views.
- Own strategy and delivery for SPH's central platform for news ingestion, search, and distribution. Led expansion into event-driven content updates and searchable audio transcripts.
- Accountable for WebCore and content platform reliability under government requirements. Led preparations for Singapore's 2025 General Election, with zero downtime during the event.
- Lead technology strategy and engineering delivery for B2B content services, supporting licensing and syndication revenue through delivery platforms and APIs. Oversaw client API migrations and partner integrations.
- Provided technical guidance on media asset management standards, procurement, and AI-assisted asset tagging.
- Set cloud budget priorities and drove S\$X00K+ annual cost reduction through SaaS consolidation, cloud optimisation, and operational improvements.
- Established engineering standards, technical design reviews, platform health dashboards, release safeguards, and operational practices including structured logging, alerting, and on-call rotations.

Lead Software Engineer, Singapore

Apr 2022–Apr 2024

- Led 10 developers across two teams to architect and build shared web and content platforms.
- Built WebCore's application hosting and deployment platform on AWS, including server-side rendering, incremental static regeneration (ISR), edge middleware, caching, backend services, and continuous integration and delivery (CI/CD).
- Architected the shared content platform's search APIs, ingestion pipelines, image optimisation, and delivery services. Built clickstream analytics for product and editorial teams.
- Led migration of publications from legacy content management systems to a shared headless architecture.

Basis AI (acquired by Aicadium)

Software Engineer, Singapore

Jan 2019–Oct 2020, Jun 2021–Apr 2022

- Employee #3; full-stack engineer on a machine learning platform for training and deploying data science workloads.
- Built the platform's frontend and reusable component library; contributed backend access-control features.
- Built workload monitoring and tooling for large artifact uploads; implemented container image caching to speed up workload startup.

Credit Suisse

Software Engineer, Singapore

Nov 2020–Jun 2021

- Developed and maintained internal applications for securities order placement, disclosures, and compliance.

GovTech (Government Technology Agency)

Software Engineer, Singapore

Jan 2016–Jan 2019

- [MyCareersFuture](#), 2018. Led modernisation of the job portal's application codebase.
- [OpenCerts](#), 2018. Built tools to bulk-register verifiable academic transcripts on the blockchain.
- Data ingestion and geographic visualisation, 2017. Improved ingestion and validation speed 50-fold over the previous implementation and built a geographic data visualisation application.
- [Business Grants Portal](#), 2016. Implemented complex form validation and SingPass authentication; introduced automated code quality checks across the codebase.

Education

Bachelor of Computing (Communications & Media), Hons.

National University of Singapore, 2011–2015

UX, HCI, and computer graphics focus

Selected Projects

- [save-in](#) — Browser extension for organising downloads into user-defined directories, with 40,000+ users.
- [album](#) — Zero-config, file-based photography gallery generator.

More projects on [GitHub](#).

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