

Aye Chan Han

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SUMMARY

Senior Full Stack Developer with 6+ years of experience designing and shipping production-ready systems across backend, cloud, and frontend. Currently working at the United Nations (ESCAP), where I lead technical delivery and drive architectural decisions on complex, data-driven platforms. Strong across Python, React, Django, Flask, and AWS, with growing depth in RAG pipelines, LLM integration, and applied AI. Known for taking full ownership, keeping teams unblocked, and consistently delivering.

EXPERIENCE

Full Stack Developer

March 2025 - Present

United Nations (ESCAP)

Bangkok

- Owned technical architecture across frontend and backend systems for GoFintel product, delivering scalable, secure, and maintainable solutions across 10+ core workflows in alignment with business and user needs.
- Established reusable React architecture and UI development standards, reducing duplicated frontend effort by 30% and enabling faster, more sustainable feature delivery.
- Led development of interactive D3.js investigative visualizations for graph-based intelligence workflows, improving analysts' ability to explore complex connected data and reducing manual investigation effort by 25%.
- Designed secure Flask APIs and service integrations across relational and graph data stores, supporting high-volume data operations with strong access control and reliable data exchange.
- Improved platform performance, resilience, and data integrity through targeted optimization of database access patterns, ORM behavior, and backend processing flows, reducing query and processing time by 35%.
- Elevated engineering maturity by implementing automated testing, CI/CD pipelines, and standardized delivery practices, reducing release issues by 40% and improving deployment stability.
- Drove Docker-based environment standardization and Azure DevOps delivery processes, reducing environment setup time by 50% and improving consistency across development, testing, and deployment.
- Led multilingual product enablement through full i18n implementation, supporting multiple language locales and improving product readiness for broader international adoption.

Full Stack Developer

May 2024 - March 2025

Issara Institute

Bangkok

- Led the design, delivery, and ongoing evolution of full-stack applications built with Django REST Framework, Celery, and React/Redux, enabling scalable, maintainable product development across 10+ core platform features.
- Drove API architecture and background job processing improvements, reducing processing time by 30% and improving production reliability for high-volume workloads.
- Directed the development of mobile-friendly Progressive Web Apps using Bubblewrap and responsive design standards, improving cross-device accessibility and increasing mobile usability by 25%.
- Owned CI/CD implementation and release automation using GitHub Actions and AWS services, reducing deployment time by 50% and improving release consistency across environments.
- Improved frontend performance and overall user experience through caching strategies, PWA optimization, and responsive UI enhancements, reducing page load times by 35%.
- Streamlined release and deployment workflows, reducing downtime during production releases by 40% and lowering operational risk across recurring deployments.
- Contributed to the architecture and delivery of digital platforms for migrant worker job matching and labor monitoring, supporting systems used by thousands of end users and multiple stakeholder groups.

Full Stack Developer

October 2023 - May 2024

Skubbs (Remote)

Singapore

- Led development and maintenance of production web applications across frontend and backend stacks, using Vue.js, React, Handlebars, Node.js, and Laravel to deliver 15+ business-critical features for regional client platforms.
- Drove improvements in data modeling, query efficiency, and system reliability across SQL and NoSQL databases, reducing query latency by 30% and strengthening long-term application stability.
- Owned AWS infrastructure and service integrations across EC2, S3, VPC, Elastic Beanstalk, and secure payment workflows, supporting reliable production operations and improving deployment and platform stability across multiple client environments.

Senior Software Engineer

June 2022 - October 2023

Modus Operandi Company Ltd

Myanmar

- Led development and maintenance of backend services and custom API integrations using Node.js and Python, supporting analytics and data processing workflows across multiple internal and client-facing use cases.

- Designed and implemented headless CMS and operational data workflows with Strapi.js, Node-RED, and MongoDB Atlas, including ETL pipelines that improved data availability and reduced manual processing effort by 30%.
- Owned delivery and integration across a broad AWS stack including Lambda, Glue, Athena, RDS, EventBridge, SES, and S3, supported by CI/CD automation that improved deployment reliability and reduced manual operational effort by 40%.

Python Developer

August 2020 - June 2022

Vidya Company Ltd

Myanmar

- Owned backend service delivery across Django, Flask, Tornado, and Express.js, building and maintaining 10+ production APIs and system components supporting both admin platforms and mobile-facing applications.
- Optimized data-intensive workflows across PostgreSQL, MySQL, MongoDB, Elasticsearch, and RethinkDB, and delivered media streaming capabilities via Node Media Server to support scalable product operations.
- Strengthened production reliability through performance tuning, bug fixing, and Linux-based system support, reducing issue recurrence by 30% and improving coordination across DevOps and frontend teams.

Jr. Python Developer

January 2020 - August 2020

GNext

Myanmar

- Built and maintained 10+ Python-based QGIS plugins to automate geospatial data processing and mapping workflows.
- Improved plugin performance and reliability, reducing processing time by 20% and lowering manual effort in GIS-related engineering tasks.
- Supported automation of multiple mapping workflows by enhancing plugin functionality in collaboration with the engineering team.

EDUCATION

B.Sc Hons (Computing)

2018 - 2019

Edinburgh Napier University

Higher National Diploma

2016 - 2018

Info Myanmar University

CERTIFICATIONS

Generative AI for Software Development

2026

DeepLearning.AI

Covering practical use of GenAI to improve engineering workflows, incident analysis, automation, troubleshooting, and operational efficiency in software and infrastructure environments.

Retrieval Augmented Generation (RAG)

2025

DeepLearning.AI

Covering embeddings, vector search, retrieval pipelines, and LLM grounding for AI-powered search and question-answering applications.

SKILLS

Languages: Python, JavaScript/TypeScript, Golang, PHP

Frameworks: Flask, Django, FastAPI, Tornado, Express.js, Nest.js, React, Next.js, Laravel

Databases: MySQL, PostgreSQL, MongoDB, Redis, RethinkDB, Weaviate, Supabase

Cloud & DevOps: AWS, Azure DevOps, Docker, GCP, GitHub Actions, GitLab CI, CircleCI, Jenkins, Digital Ocean

AI/ML: RAG pipelines, LLM integration, Ollama, vector search, embeddings, GenAI APIs, machine learning, artificial intelligence, NLP

Other: D3.js, Selenium, Pytest, Celery, Strapi, Node-RED, i18n, API security (OIDC, JWT, RBAC), PWA development, data visualization

PROJECTS

Multimodal RAG System with LLM

- Built a multimodal Retrieval-Augmented Generation system supporting text and image inputs, enabling intelligent document querying and context-aware LLM responses.
- Architected with FastAPI backend, PostgreSQL for structured data, Redis for caching and session management, and Ollama for local LLM inference — prioritizing privacy and low-latency performance.
- Implemented vector-based retrieval pipeline with embedding generation and similarity search to ground LLM responses in accurate, relevant context.