

KHANT HMUE

Backend & AI Engineer | Python · Go · Django · RAG / LLMs · AWS · Azure

Bangkok, Thailand | hmue.khant@outlook.com | +66 951 029 203 | khanthmue.com | github.com/Kh125 | linkedin.com/in/khanthmuu

PROFESSIONAL SUMMARY

Backend-focused Software Engineer with 3+ years building production systems across Fintech, Logistics, and AI domains. Specializes in Python (Django/FastAPI), Go, RAG pipeline architecture, and scalable cloud deployments on AWS and Azure. Proven in full-cycle delivery from system design and TDD to CI/CD and production monitoring. Holds the FE (Fundamental IT Engineer) certification from Japanese METI, Google Associate Cloud Engineer, and GitHub Foundations. Currently based in Bangkok; open to sponsorship.

TECHNICAL SKILLS

Languages: Python, Go, TypeScript, JavaScript (ES6+), C#, SQL

Backend & Cloud: Django (DRF), FastAPI, ASP.NET Core, PostgreSQL, Redis, Celery, Docker, Linux, AWS (EC2, S3), Azure, GitHub Actions

AI / ML: RAG Pipelines, LangChain, Vector DBs (Pinecone / Chroma), OpenAI API, Azure AI Foundry, NLTK

Frontend: React.js, Next.js, Tailwind CSS, WebSockets

Practices: TDD, RESTful API Design, Agile/Scrum, Microservices, CI/CD

Certifications: FE - Fundamental IT Engineer (METI Japan), Google Associate Cloud Engineer, GitHub Foundations

WORK EXPERIENCE

Full Stack Developer | **Next Innovations Co., Ltd.** | Yangon (Hybrid) *Sep 2024 - Present*

- Architected a Django/PostgreSQL monolith with Redis caching, serving as the core business platform for a Myanmar logistics product.
- Deployed a production RAG pipeline (Azure AI Foundry + Pinecone) enabling semantic search over proprietary operational data, reducing manual lookup time by 60%.
- Reduced address-parsing latency by 40% by introducing Celery async queues and optimizing Google Maps API integration.
- Standardized CI/CD via GitHub Actions and Docker, achieving 99.9% uptime across staging and production environments.

Backend Engineer (Contract) | **Engineer Force** | Tokyo, Japan (Remote) *Feb 2025 - Mar 2025*

- Delivered a working Semantic Search prototype using Azure AI Foundry within 4 weeks, meeting all client milestones.
- Benchmarked Pinecone vs. MongoDB Atlas Vector Search and produced an evidence-based storage recommendation for the client's AI roadmap.

Full Stack Developer | **Haulio** | Singapore (Remote) *May 2022 - Jun 2023*

- Built scalable .NET Core microservices connected via Azure Service Bus, digitizing container-haulier matching workflows that previously ran on spreadsheets.
- Implemented real-time container tracking dashboards using WebSockets/SignalR, replacing email-based status updates.

- Integrated Stripe and Adyen payment gateways and enforced RBAC access control across all customer-facing APIs.

System Engineer | **BIM Group** | Yangon

May 2024 - Jul 2024

- Automated Microsoft 365/Azure tenant migrations with PowerShell, cutting manual provisioning time by ~70%.
- Managed hybrid Azure/Windows Server environments and enforced compliance policies via SCCM.

KEY PROJECTS

Tee Off O'Clock - Golf Booking Platform | *Django DRF PostgreSQL Next.js Docker*

- Contributed to a full-stack golf booking platform built with Django REST Framework and PostgreSQL; designed and implemented REST APIs with a service-layer architecture to keep business logic clean, maintainable, and consistently formatted across all endpoints.
- Applied serializer-based validation and proper HTTP status handling; collaborated on Next.js frontend integration to deliver reliable end-to-end booking flows with backward-compatible API changes.

Talent Cloud Platform - HR-as-a-Service | *Django React AWS EC2 Celery WebSockets NLTK*

- Built a hybrid job-seeking and HR platform with an NLTK-powered semantic search engine using lemmatization for improved candidate-to-role matching.
- Implemented real-time application alerts via WebSockets and automated resume parsing workflows with Celery Beat.

Live: staging.talent-cloud.asia

SmartPost AI - Social Media Automation | *Python Facebook Graph API Workflow Orchestration*

- Automated social media management by chaining Facebook Graph APIs with AI content generation schedulers, removing manual publishing effort entirely.
- Built an agentic workflow orchestration pipeline for multi-platform scheduling, enabling non-technical teams to manage content without manual intervention.

Locaboo - Dynamic Location Pricing Engine | *Python Google Geocoding API Text-to-SQL*

- Engineered a geospatial pricing algorithm that adjusts rates dynamically based on real-time distance and demand data.
- Built a natural language Text-to-SQL chatbot so non-technical staff can query complex pricing databases without writing SQL.

Live: staging.locaboo.jp

MyanmarTrails - Travel Information Platform | *Next.js Python PostgreSQL AI Recommendations*

- Solo-built, publicly live travel discovery platform for Myanmar with a preference-based recommendation engine ranking 35+ destinations by budget, season, and travel style.
- Features curated region guides, multi-day itinerary templates, and permit-area documentation — fully designed, developed, and deployed independently.

Live: myanmar-trails-stg.khantthmue.com

Kyōzai Hub - AI Japanese Learning System | *React FastAPI OpenAI API Firebase Vector DB*

- Built a multimodal RAG pipeline combining OCR with LLMs to analyze Japanese text images in real time.
- Implemented a Firebase caching layer before LLM queries, cutting token costs and reducing lookup latency by 60% vs. raw SQL.

Live: nihongo.kaizen-den.space | Code: github.com/Kh125/japanese-reading-assistant

RESEARCH & HONORS

- "Microservices vs Monoliths: A Comparative Analysis" - Published at ICAIT 2024. Analyzed architectural trade-offs in cloud-native systems.
- "Toward Context-Aware Notification Service" - Published at ICCA 2024. Proposed a geolocation-based notification algorithm for campus environments.

- Competitive Programming Finalist - ICPC Asia-Yangon Regional (2018) & Myanmar Collegiate Programming Contest (2019).

EDUCATION

B.Sc. Computer Science - High Performance Computing
University of Information Technology, Yangon, Myanmar

Graduated 2024

LANGUAGES

English: Professional Working Proficiency | **Japanese:** JLPT N4 | **Burmese:** Native