

KHANT HMUE

Full Stack Developer

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PROFESSIONAL SUMMARY

Full Stack Developer with 3+ years of experience building scalable applications and enhancing system performance by 30% through AI-driven workflow automation. Experienced in designing RAG architectures and vector search solutions to solve complex client challenges. Collaborated with cross-functional teams to deliver high-precision AI products on time and within a limited budget.

TECHNICAL SKILLS

Languages: Python, C#, JavaScript (ES6+), TypeScript, Java, PHP | Frontend: React.js, Next.js, Vue.js, Tailwind CSS

Backend: Node.js, Django, ASP.NET Core, Nest.js | Database: MongoDB, MySQL, PostgreSQL | Cloud: Linux, AWS, Azure, Google, Docker

EDUCATION

Bachelor of Computer Science (High Performance Computing)

University of Information Technology, Yangon | 2016 – 2024

CERTIFICATIONS

- Fundamental Information Technology Engineer Examination (FE)
- Information Technology Passport Examination (IP)
- Google Associate Cloud Engineer
- Github Foundations

WORK EXPERIENCES

Full Stack Developer | Next Innovations Co.ltd - Yangon | *September 2024 – Present*

- Solely architected backend infrastructure using Django and PostgreSQL, managing AWS S3, OAuth authentication, and automated deployment pipelines with comprehensive documentation.
- Engineered complex pricing algorithms and prototyped RAG pipelines using Azure AI and Vector DBs to enable semantic search on proprietary location and pricing data.
- Optimized asynchronous workflows using Celery and Redis for high-performance tasks; integrated Fincode payments and achieved 95% address parsing accuracy via TerraMap and Google Map APIs.

Contract Software Engineer | Engineer Force - Japan | *February 2025 – March 2025*

- AI Prototyping: Designed a RAG pipeline using Azure AI Foundry to validate semantic search feasibility on web-scraped datasets for the Hosono AI platform.
- Architectural Analysis: Conducted comparative benchmarking between Pinecone and MongoDB Vector DB to analyze performance metrics and define the optimal vector storage strategy.

Junior System Engineer | Internship | BIM-Yangon | *May 2024 – July 2024*

- Cloud Migration: Executed Microsoft 365 and Azure tenant migrations, utilizing PowerShell scripts for automated user provisioning and cross-provider mail transfers.
- Infrastructure Ops: Managed hybrid resources (Azure VMs/VNETs, Windows Server) and SCCM for automated patching; configured Dynamics CRM for system health monitoring.

Research Student & Freelance Developer | University of Information Technology - Yangon | *July 2023 – February 2024*

- **Context:** Completed final year B.Sc. coursework while working on independent projects and co-engineering the university Capstone infrastructure.
- **Cloud Infrastructure:** Co-architected a private cloud environment on bare-metal servers using VMware vCenter and OpenNebula to support data analysis workloads.
- **App Development:** Developed the UniNotify platform and a decentralized supply chain application using Hyperledger Fabric.
- **Publication:** Co-authored and published the technical paper "Toward Context-Aware Notification Service" at ICCA 2024,.

Junior Full Stack Developer | Haulio-Singapore | *May 2022 – June 2023*

- Gained hands-on experiences in Microservices Architecture by developing scalable modules (C#/Angular) and implementing Azure Service Bus patterns for reliable asynchronous messaging.
- Digitized complex haulier-haulage workflows, transforming manual operations into efficient digital processes with real-time tracking via WebSockets.
- Integrated secure payment gateways and implemented complex Role-Based Access Control (RBAC) while utilizing Azure DevOps for CI/CD pipelines.

KEY PROJECTS

- **Talent Cloud Platform** | Django, React, AWS EC2, NLTK: Built a hybrid HR platform featuring an intelligent search suggestion system powered by NLTK (lemmatization). Implemented real-time application alerts via WebSockets and automated background workflows using Celery/Beat.
- **Locaboo** | React, Python, TerraMap, Google Geocoding API: Engineered a dynamic pricing engine with location-based algorithms and payment integration; built an AI chatbot to query database data-sources and generate intelligent place with respective prices suggestions.
- **Tee Off O Clock** | Django, React, PostgreSQL: Developed a comprehensive golf management platform featuring player onboarding workflows and a robust Tee Time booking system. Implemented a complex scoring engine that calculates handicaps and net scores based on dynamic Tee Box difficulty ratings (Slope/Rating).
- **SmartPost AI** | Python, Facebook Graph API, Dify: Automated social media workflows by integrating Facebook/Messenger APIs with Dify workflows and schedulers to generate and auto-publish AI-driven content.
- **Japanese Reading Assistant** | React, Gemini AI, OCR, Firebase: Developed an AI web tool utilizing Gemini AI and OCR to scan text and identify Kanji for real-time reading assistance; provide SRS for saved kanjis, with Firebase integrated for data storage.
- **UniNotify PWA** | MERN Stack, Google Maps API, LMS Integration: Developed a context-aware Progressive Web App (PWA) that syncs with University LMS schedules. Integrated Google Location Services to calculate precise travel times and route suggestions to the next class, featuring offline access via Service Workers.

PUBLICATIONS AND COMPETITIONS

- Toward Context-Aware Notification Service in Universities | ICCA | 2024
- Microservices vs Monoliths: A Comparative Analysis and Problem-Solving Approach in Web Development | ICAIT | 2024
- 2018 ICPC Asia-Yangon Regional Contest & 2019 Myanmar Collegiate Programming Contest

LANGUAGES

- English: Professional Working Proficiency
- Japanese: JLPT N3 (Active Learner)
- Burmese: Native

Soft Skills

- End-to-end full-stack development • Independent project ownership • Rapid learning & Adaptation • Critical Problem Solving • Technical communication • Research & Development (R&D)