KIMSENG DUONG
Full Stack Engineer

PROFILE

I'm a Full Stack Engineer with over 4 years of experience in building scalable, secure, and high-performance systems. I specialize in system architecture, API development, and automation. I have a solid background in cloud deployment, DevOps, and containerized apps.

I focus on developing full-stack applications with an emphasis on business logic, data security, and AI-driven solutions. I'm experienced in integrating systems, improving development workflows, and working closely with cross-functional teams. I follow agile methodologies and ensure code quality with best practices.

CONTACT

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WORK EXPERIENCE

Full Stack Engineer - Dataticon by DataU Academy   Feb 2023 - Feb 2025

- Developed a modern data visualization platform (**AISER**) for seamless data analysis and reporting.
- Integrated Jupyter Notebook for enhanced data processing and analysis.
- Implemented AI-powered SQL prompting for more efficient querying and data insights.
- Developed a chat-based interface powered by AI, allowing users to interact with data by asking for visualizations, insights, and recommendations. The system leverages multiple AI agents to provide dynamic responses, deliver knowledge-based suggestions, and create data visualizations, enhancing user engagement and decision-making processes.
- Designed and implemented a microservices architecture to improve system scalability, reliability, and maintainability, ensuring each service is independently deployable and fault-tolerant.
- Led the design of system architecture and infrastructure, focusing on creating a robust, scalable, and efficient backend environment to support growing business needs.
- Fine-tuned AI models, including GPT-based models, to optimize performance and accuracy for specific data output, ensuring more precise and reliable results for insights and recommendations.

Full Stack Engineer - AsurRaa Startup Company   Dec 2020 - Jan 2023

- Designed the system architecture and developed a robust membership management system for **Gogym Cambodia**, enabling seamless customer check-in/out, automated access control, and secure user authentication. Integrated a POS system to facilitate product sales, service bookings, and membership subscriptions, ensuring a seamless transaction experience and efficient gym operations.

- Architected and developed a scalable e-commerce platform (**Tenbox**), enhancing the online shopping experience with custom features, secure transactions, and seamless system integrations for inventory, payments, and order management.
- Architected and developed the **KrubKrong POS** platform with multi-tenancy data management, ensuring efficient handling of multiple businesses while maintaining data isolation, security, and scalability. Implemented an inventory management system tailored for POS operations, featuring stock level monitoring, barcode scanning support, purchase order management, and integration with sales transactions to ensure accurate stock updates.
- Integrated a secure bank payment system, improving transaction reliability and ensuring compliance with financial security standards.
- Managed project development using Kanban software, handling planning, task delegation, and issue tracking to maintain efficient workflows and timely project delivery.

Game Developer - GeekIndie Studio   2019 - 2021
- Designed and created 2D pixel art assets, including environments, characters, and animations, contributing to the game's visual identity.
- Developed a custom physics engine to simulate kinematics, friction, and collision response, ensuring realistic interactions in the game world.
- Created 2D animations, bringing characters and scenes to life, improving the overall gaming experience.

Intern - Koompi Company   2018 - 2019
- Contributed to the development of a Linux-based desktop environment, improving the user interface and overall experience for Koompi users.
- Assisted in maintaining the Linux system and kernel, troubleshooting issues, and ensuring optimal performance of the company's systems.

PROJECTS & ACHIEVEMENTS

AISER - AI-Powered Data Visualization Platform
- Developed a cutting-edge data visualization platform leveraging AI-driven SQL prompting to enhance querying and data insights.
- Integrated Jupyter Notebook for seamless data processing and analysis.
- Designed and implemented a chat-based AI system, enabling users to interact with data dynamically through visualizations and recommendations.
- Built a microservices architecture to ensure scalability, fault tolerance, and maintainability.
- Fine-tuned AI models, including GPT-based models, to optimize performance and accuracy for specific data output, ensuring precise and reliable insights and recommendations.

KrubKrong - Multi-Tenant POS System
- Architected and developed a scalable POS platform with multi-tenancy support, allowing multiple businesses to operate independently while ensuring data security and isolation.
- Implemented a flexible inventory management system with real-time stock updates, purchase tracking, and automated low-stock alerts.
- Designed customizable POS features, including sales reports, customer management, and seamless integration with external payment gateways.
- Ensured high system availability and fault tolerance, optimizing performance for businesses with high transaction volumes.
- Integrated a role-based access control system, securing business data and allowing customized permissions for different users.

Tenbox - E-Commerce Platform
- Designed and developed a custom e-commerce platform with advanced inventory management, enabling real-time stock tracking, supplier management, and automated restocking alerts.
- Implemented stock level management to handle product variants, ensuring accurate inventory tracking and preventing overselling.
- Optimized backend performance, reducing API response time and enhancing scalability for growing business demands.
- Ensured secure financial transactions by integrating a bank payment system with compliance to industry standards.

Gym Membership Management System - Goygm Cambodia
- Architected and developed a robust membership management system with automated customer check-in/out, access control, and secure authentication.
- Designed and implemented an integrated POS system, allowing the sale of gym memberships, services, and products, ensuring a seamless purchasing experience.
- Developed an inventory management system to track gym merchandise, supplements, and equipment, optimizing stock levels and automating restocking alerts.
- Implemented a seamless user experience with role-based access control for gym staff and members.

EDUCATION

Bachelor of Computer Science   **2017 - 2021**
Royal University of Phnom Penh
- Specialized in software engineering, data structures, and database management

Chinese Language Program   **2003 – 2013**
GuangZhao International School (Phnom Penh, Cambodia)
- Completed a 10-year immersive Chinese language curriculum.
- Achieved fluency in spoken and written Mandarin.

LANGUAGES

- **Khmer:** Native or bilingual proficiency
- **English:** Professional working proficiency
- **Chinese:** Professional working proficiency

TECHNICAL SKILLS

Programming Languages & Frameworks
Python, TypeScript, FastAPI, Flask, NestJS, React.js

AI & Machine Learning
AI Software Development, AI Agents, Fine Tuning

Cloud Platforms
Microsoft Azure, Amazon Web Services (AWS)

Databases
PostgreSQL

DevOps & Tools
Continuous Integration and Continuous Delivery (CI/CD), Docker, Linux Server