Naphat Khoprasertthaworn
Tel: 094-849-1456 | Email: naphat.kps@outlook.com | GitHub: naphatkps

Education

Chulalongkorn University, Bangkok, Thailand   [May 2025]
Bachelor of Engineering in Computer Engineering   GPA: 3.56
Coursework: Algorithm design, Software-defined systems, Computer network

Satit Rajabhat Nakhon Pathom School, Thailand   [Mar 2021]
Science-Math Program   GPA: 3.94

Experience

AIMET, Bangkok, Thailand   [May 2024 – Present]
Agentic AI Engineer Intern, Mental Health Support Chatbot Development
- Designed and implemented an agentic LLM system using Autogen → Enhanced AI-driven decision making and improved system adaptability.
- Developed a FastAPI webapp with REST API and WebSocket integration → Enabled real-time, seamless user interactions and robust backend connectivity.
- Constructed frontend interfaces using Next.js and ShadCN → Delivered an intuitive, responsive user experience.
- Containerized services with Docker and deployed to Amazon ECR → Streamlined deployment processes and ensured consistent environments.
- Configured AWS EC2 with Nginx and Cloudflare for HTTPS → Ensured secure, scalable, and high-performance hosting.
- Led project management and planning → Improved team efficiency and accelerated project delivery.

Projects

Software-defined systems Project, Temperature Monitoring System
- Designed a microservices architecture with Raspberry Pi → Enabled distributed operation and scalability.
- Developed containerized services using Docker → Simplified deployment and scalability across devices.
- Configured Kubernetes for orchestration → Streamlined service management and fault tolerance.

Forex Expert Advisor Development and Portfolio Management System
- Developed an automated trading system using MQL5 and MetaTrader → Enabled consistent profitable trading across 15-year backtesting period.
- Implemented advanced grid martingale strategy with custom indicators → Enhanced trading precision and reduced drawdown risk.
- Designed full-stack portfolio monitoring system with Next.js and FastAPI → Facilitated real-time asset management and performance tracking.
- Optimized database queries and traffic handling → Improved system responsiveness for real-time market data processing.
- Deployed frontend to Vercel and configured backend on AWS EC2 → Ensured scalable and reliable system performance.

Activities & Extracurriculars

Machine learning engineer (individual study), Mental Health LLM Project   [Jan 2024 – May 2024]
- Optimized the LLM model → Enhanced efficiency, reducing latency and resource usage.
- Deployed the LLM model → Facilitated real-time mental health support functionalities.
- Led the team in using project tools → Ensured seamless integration and effective utilization of LLM technology across the team.

Backend development (individual study), C2Fit project   [Aug 2022 – Dec 2022]
- Developed backend RESTful APIs → Enabled seamless communication between client and server for real-time symptom classification and severity analysis.