Ratha Rotruchiphong

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EDUCATION

King Mongkut's Institute of Technology Ladkrabang (KMITL) Bangkok, Thailand
Bachelor of Engineering Program in Computer Engineering Expected Graduation: 2027

- **Cumulative GPA:** 3.21
- **Key Coursework:** Web Application Development, Object Oriented Programming, Data Structures, AI, Software Development, Operating Systems, Computer Networks, System Platform Administration

Kamnoetvidya Science Academy (KVIS) Rayong, Thailand
High School Diploma, Science and Mathematics Program 2019 – 2022

- **Cumulative GPA:** 3.94
- Selective residential science high school with a research-based curriculum; admission by national examination.

TECHNICAL SKILLS

- **Languages:** Python, Go (Golang), C#, SQL, HTML, CSS, JavaScript
- **Frameworks & Libraries:** Echo, ASP.NET Core, Entity Framework, OpenCV, NumPy, Pandas
- **Cloud & AI:** AWS, LLM Integration, Prompt Engineering
- **Tools & Platforms:** Postman, Git, Docker, PostgreSQL, SQL Server, MinIO, Render, Aiven, Figma

EXPERIENCE

NoviTech AI Solutions — *AI/LLM Systems, AWS, Full-Stack* Apr 2026 – Present
Software Engineer Bangkok, Thailand

- **AI Engineering:** Design and implement AI/LLM-powered features for an agri-tech product line, covering pipeline design, prompt engineering, and evaluation of model output quality.
- **Cloud Architecture:** Architect and deploy services on AWS, owning infrastructure design decisions and the cost–performance trade-offs behind them.
- **Full-Stack Delivery:** Build backend services and supporting frontend interfaces to ship features end to end, from data layer through user-facing integration.

Border Surveillance System Project — *Python, Computer Vision* Dec 2025 – Present
AI Engineer (Joint Project with NT & Royal Thai Army Signal Departure) Remote

- **Project Scope:** Developing a high-security surveillance system to detect illegal border activities (e.g., weapon smuggling, intrusion)
- **AI Implementation:** Currently prototyping a Camouflage Person Detection model using Python and YOLO architectures to identify military personnel in complex forest environments.

Chachoengsao PAO Management System — *Go (Echo), PostgreSQL, Docker* Aug 2025 – Sep 2025
Backend Developer (Project with Chachoengsao Provincial Administrative Organization) Remote

- **Government Digitalization:** Developed a Government Intranet for the PAO to support Provincial Council Members, digitizing manual workflows for meetings and official document management.
- **System Design:** Architected a secure REST API using Go (Golang) and PostgreSQL with Clean Architecture. Implemented MinIO for document storage and standardized deployment using Docker.
- **Key Features:** Engineered complex modules for Royal Decorations Tracking, Meeting Management, and Digital Document Approvals, secured by RBAC and integrated with SMS notifications.

PROJECTS

FoodBridge (Food Redistribution Platform) — *Go (Echo), PostgreSQL, Docker* Sep 2025 – Nov 2025

- **Backend Structure:** Designed a scalable API using Go (Echo) and PostgreSQL, following Clean Architecture principles.
- **DevOps:** Set up a CI/CD pipeline on Render for auto-deployment and the cloud database via Aiven.

- **Development Standards:** Streamlined team workflows by containerizing the environment with Docker and maintaining comprehensive API documentation to facilitate frontend integration.

Togeta (Activity Partner Platform) — *ASP.NET MVC, Entity Framework* Jan 2025 – Mar 2025

- **Backend Development:** Built a community platform using ASP.NET MVC and SQL Server, featuring automated post scheduling and moderation tools.
- **Real-time Features:** Created a multi-channel notification system (Email/Web) and used AJAX for asynchronous data updates.
- **Data Layer:** Implemented data access using Entity Framework Core to handle complex relationships between users and activities efficiently.

PUBLICATIONS

EEG-BBNet: A Hybrid Framework for Brain Biometric using Graph Connectivity 2022
IEEE International Conference on ECTI-CON 2022