

Swan Htet Aung

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SUMMARY

Computer Engineering graduate with hands-on experience in Java, Spring Boot, REST APIs, and AI-integrated full-stack applications. Built scalable backend systems with JWT authentication, RBAC, and Redis caching, improving API performance by up to 70%. Seeking a Junior Software Engineering role, open to internship opportunities.

EDUCATION

Assumption University of Thailand

B.Eng. in Computer Engineering

Samut Prakan, Thailand

Dec 2021 - March 2026

- **Concentrations:** Backend Development
- **GPA:** 3.83 – **Summa Cum Laude**, *President's Honor List*

PROJECTS

E-commerce Backend

Technologies: Java, Spring Boot, Spring Security, JPA, PostgreSQL, JWT, Redis, AWS

Jan 2026 – April 2026

- Developed a RESTful e-commerce backend using Spring Boot, modeling **5+ core domains** (users, products, carts, orders, payments) within a layered architecture
- Implemented stateless JWT authentication and role-based access control (**RBAC**) using Spring Security to secure APIs and enforce authorization
- Designed and optimized relational schemas with JPA/Hibernate and PostgreSQL, improving query efficiency through pagination and optimized entity mappings
- Improved API response time by **~70% using pagination** and **~35% with Redis caching**, reducing database load, validated with Spring Boot Actuator
- Implemented Redis caching (TTL-based) for high-read endpoints and integrated AWS services (RDS, Swagger), improving performance and system readiness for production deployment

AI Studio Full-Stack Web App

Technologies: Java, Spring Boot, Spring AI, OpenAI API, React.js, Docker

March 2026

- Developed a full-stack AI platform integrating OpenAI GPT and image generation using Spring AI for chat, recipe, and image features
- Implemented prompt engineering with dynamic Prompt Templates to generate structured, high-quality AI responses from user inputs
- Designed a modular Spring Boot REST architecture and built a responsive React.js frontend for real-time AI interaction and dynamic content rendering
- Containerized and deployed the backend using Docker on Render and hosted the frontend on Netlify, configuring environment variables and CORS for seamless integration

Breast Cancer Predictor App

Technologies: Python, Streamlit, Scikit-Learn, Pandas, Numpy, Plotly, Pickle, CSS.

Sep 2025

- Built an interactive web app using Streamlit to predict breast tumors as benign or malignant, trained on the Breast Cancer Wisconsin dataset
- Implemented feature scaling, model serialization with Pickle, and interactive sliders for real-time visualization

ACTIVITIES AND WORK EXPERIENCE

Assumption University - VMES

Teacher Assistant for Dean of VME

Samut Prakan, Thailand

July 2022 – March 2026

- Supported academic operations and event coordination for the Dean's office over 4 years, demonstrating consistent commitment alongside full-time studies

SKILLS

Programming: Java, JavaScript, HTML/CSS, Python, SQL

Frameworks: Spring Boot, Spring Security, Spring AI, React.js, Flutter

Tools: IntelliJ, VS Code, Android Studio, Git, Postman, PostgreSQL, MySQL, MongoDB, Redis, Docker

Soft Skills: Problem-Solving, Adaptability, Teamwork