



SWAN HTET AUNG

Software Engineer

CONTACT

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- [portfolio.com](#)

EDUCATION

Assumption University of Thailand

Bachelor of Computer Engineering
2021 - 2026

GPA: 3.83

3 president's honour awards

SKILLS

Programming Languages

- Java, JavaScript, Python

Backend Development

- Spring Boot, REST API,
JPA/Hibernate, Spring Security,
JWT Authentication

Frontend Development

- HTML, CSS, JavaScript, React.js,
Flutter

Databases

- MySQL, PostgreSQL, MongoDB

Tools

- Postman, Docker, Redis

Machine Learning & Computer Vision

- OpenCV, Scikit-Learn, YOLO,
PyTorch, Pandas

Soft Skills

- Problem-Solving, Adaptability,
Fast Learning, Teamwork

SUMMARY

Detail-oriented Software Engineer with hands-on experience building full-stack applications using Java, Spring Boot, and React.js. Developed scalable REST APIs with JWT-based authentication and applied layered architecture (Controller-Service-Repository) in independent projects. Built AI-powered features using Spring AI and OpenAI API, including chat, image generation, and dynamic content processing. Experienced in deploying containerized applications using Docker with cloud platforms such as Render and Netlify. Currently expanding cloud computing knowledge with AWS through practical, real-world projects and eager to contribute to high-impact engineering teams.

PROJECTS

E-commerce Backend System

Tech Stack: Java, Spring Boot, Spring Security, JPA/Hibernate, PostgreSQL, JWT, Redis, Swagger, Lombok, React.js(Planned Frontend), Git/GitHub

- 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

Tech Stack: Java, Spring Boot, Spring AI, OpenAI API, React.js, Docker, Git/GitHub

- 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.

Spring Security - Contact Management API

Tech Stack: Java, Spring Boot, Spring Security, JWT, Git/GitHub

- Developed a secure RESTful API for contact management using Spring Boot, Spring Security, and JWT. Implemented stateless authentication and role-based access control (RBAC), allowing users to securely authenticate and access protected endpoints based on assigned roles.
- Leveraged Method-Level Security to enforce granular permissions, distinguishing between user and administrator privileges for contact operations. The system incorporates BCrypt password hashing and a custom JWT filter to ensure robust data protection and secure token-driven authorization.

LANGUAGE

- Burmese
- English

CERTIFICATES

- Flutter and Dart - [Coursera Certificate](#)

GITHUB

- [swanhtetaung01](#)

Portfolio Web

Tech Stack: HTML, CSS, JavaScript

- Developed a simple, static personal portfolio website using plain HTML5, CSS3 (with responsive media queries) and vanilla JavaScript. The project consists of a single index.html, separate stylesheet files (style.css and mediaqueries.css), a script.js for basic interactivity and an assets folder for images and media.
- Designed to showcase skills, projects and contact information in a clean, mobile-friendly layout that works without any build tools. The site can be deployed on any static host (GitHub Pages, Netlify, etc.), making it a lightweight template ideal for an online presence or as a starter project.

Breast Cancer Predictor App

Tech Stack: Python, NumPy, Pandas, Scikit-Learn, Streamlit, Plotly, Pickle.

- Built an interactive web application using Streamlit to predict whether breast tumors are benign or malignant. Trained and deployed a Logistic Regression model on the Breast Cancer Wisconsin dataset for real-time classification.
- Implemented feature scaling, model serialization using Pickle, and interactive sliders for user input. Designed a lightweight web interface for real-time visualization and prediction output.