Sarun Tapee

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Summary

Full-Stack Developer with almost 3 **years** of experience building **web applications** in **Agile** environments. Skilled in Golang, **TypeScript (React/Node.js), and Java/Spring Boot,** with a passion for clean code, scalability, and problem-solving. Key strengths:

- Backend: Built RESTful/GraphQL APIs, optimized databases (PostgreSQL, MongoDB), and implemented authentication (OAuth2).
- **Frontend:** Developed responsive UIs with React, Next.js, Material-UI, and TailwindCSS.
- **Collaboration:** Worked cross-functionally to deliver features in e-commerce and cloud-based projects.

Technical Skills

Languages: Golang, TypeScript/JavaScript, Java, Python, SQL
Frontend: React, Next.js, Material-UI, TailwindCSS
Backend: Node.js, Express, Spring Boot, REST/GraphQL, gRPC, Distributed Systems
Databases: PostgreSQL, MongoDB, Elasticsearch
Tools: Git, Docker, Postman, Vim, Tmux, GDB
Testing: Unit/Integration Test, JUnit, PactumJS
Cloud: AWS/GCP

Experience

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- **Data Migration** Tool: Developed a Golang CLI tool to migrate **15 M+ records** from **Postgres** to **MongoDB,** and files in GCP, ensuring **zero** data **loss** and **idempotency.**
- **API Optimization:** Resolved **N+1 query issues** in a product search API by adding a caching layer, reducing database calls by 70%.
- Payment **Integration:** Architected a payment service using the Strategy Pattern (Golang), supporting **multiple** payment gateways (2C2P, PaySolutions, KBank), cutting vendor lock.
- Distributed Systems: Designed an idempotent payment API with **SAGA orchestration,** ensuring atomicity for 10K+ daily transactions.
- **Concurrent programming:** Designed and implemented a concurrent report generation system in Golang using **goroutines** and **channels,** enabling **real-time progress streaming** during large-scale sales report processing.
- **Authentication:** Implemented **OAuth2** login (Google/Facebook/Apple) and symmetric key authentication for public APIs, blocking 100% of unauthorized access.
- **Testing:** Wrote integration tests with **PactumJS,** reducing frontend-backend bugs by 30%.
- **Responsive Web App:** Built a fully responsive web application in React, translating Figma designs into production. Customized **Material UI** with **Emotion.js** and integrated **Tailwind CSS** to accelerate UI development, improve maintainability, and deliver a seamless user experience across all screen sizes.

Personal Projects

[Video-on-Demand Platform]( ) **|** *Golang, React, GraphQL*
- Built a course platform with user authentication, video streaming, and payment processing (Omise).
- Key Achievement: Implemented adaptive video streaming, improving load times by 25%.

[E-Commerce Marketolace]( ) **|** *Java, Spring Boot, React*
- Developed a full-stack app for sellers/clients with secure APIs (Spring Security) and React frontend.
- Key Achievement: Containerized with Docker, simplifying deployment.

[Mathematical Expression Parser]( ) **|** C, C++
- Developed a library for tokenizing strings and evaluating mathematical expressions. See bl_go

[Relational]( ) [Database Manaoement]( ) **|** *C, C++*
- Developed a mini SQL database. The data is stored in B+ tree data structure in memory.

[Garbage Collector]( ) **|** C
- Developed a garbage collector in C from scratch. See j2|qg.

[Social **Network** Mobile Ag»]( ) **|** *Kotlin, Jetpack Compose, WorkManager, Navigation 3*
- An Android application for socializing

Education

M.S. Computer Science | Maharishi International University
B.S. Mechanical Engineering | Chulalongkorn University