

Sarun Tapee

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SUMMARY

Naval Architect & Full Stack Developer with 5 years of experience, including 3+ years in Naval Architecture and 2+ years in Full Stack Development, specializing in e-commerce platforms and Agile environments. Skilled in Golang, TypeScript, React, gRPC, and GraphQL, with deep expertise in microservices, cloud computing, and database management (MongoDB, PostgreSQL). Proven ability to design scalable, high-performance applications while ensuring clean, maintainable code. Strong collaborator with cross-functional teams to drive project success. Passionate about innovative problem-solving and optimizing system efficiency.

EDUCATION

Maharishi International University

Master of Science in Computer Science (in Progress, Expected Completion: 12/2026)

Fairfield, Iowa

Apr 2024 – Present

Chulalongkorn University

Bachelor's in Mechanical Engineering (Naval Architecture and Marine Engineering)

Bangkok, Thailand

Aug 2014 – May 2018

EXPERIENCE

Full Stack Web Developer

Digithun Worldwide

Oct 2021 – Apr 2024

Bangkok, Thailand

- Developed a Golang-based command-line tool for efficient data migration, streamlining complex data transfer processes, and improving developer experience.
- Designed and implemented a secure authentication service (OAuth2).
- Architected a flexible payment service using the Strategy Pattern in Golang, enabling seamless integration of multiple payment gateways and reducing vendor dependency.
- Optimized product search API using Elasticsearch, improving search accuracy and enhancing user experience.
- Resolved N+1 query problem by implementing a caching proxy layer, reducing database query round trips and improving system efficiency.
- Developed an idempotent payment API, ensuring transaction reliability and preventing duplicate charges.
- Enhanced API integration testing using PactumJS, reducing frontend-backend compatibility issues and improving development workflow.

Naval Architecture

Albatross Marine Design

Aug 2019 – July 2021

Pattaya, Thailand

- Assessed the stability of the ship to comply with the ISO standard using Wolfson Unit software.
- Designed window and hatch water-tight degree according to ISO 11336-1 standard.
- Designed a structure for a composite and aluminum boat and developed a 3D model and drawing.
- Developed Excel sheet to design lamination layer for composite structure to comply with ISO 12215-5 standard.
- Developed Excel sheet to design rig size, pillar and lamination layer of pillar support of sailing boat to ensure that the boat can operate safely under sea conditions according to ISO 12215-10 standard.
- Developed 3D model for ship construction according to calculations using Rhino software.
- Optimized aluminum plate utilization by creating a laser cut file using Rhino and AutoCAD software.
- Assessed global strength for composite catamaran hull with FEA, finite element analysis, method using Straus7 software to comply with ISO 12215-6 standard.

Associate Pipeline Engineer

Synterra

Nov 2018 – Aug 2019

Bangkok, Thailand

- Be a project engineer of the automatic marine growth cleaner project, the tool for removing marine growth such as algae, seaweed, barnacles, and mussels from the offshore platform leg.
- Coordinated with the constructor, Unithai, for developing the project prototype.
- Contacted client for prototype demonstration.
- Reported project progressing to NIA, National Innovation Agency, for project sponsorship.
- Developed calculation sheet using Smath program.

Drawing Staff

Aug 2018 – Nov 2018

Bakri Cono

Rayong, Thailand

- Developed 2D and 3D drawings for stainless steel construction and laser cutting of tanks using AutoCAD and Inventor.
- Adjusted the designed drawing according to the built boat, As-built drawing, including fuel, bilge, west, fresh and hot water, electrical, and fire extinguishing system.

Internship

Jun 2017 – Jul 2017

Seat Boat

Pattaya, Thailand

- Inspected fiberglass boat and trailer building process.
- Developed 2D drawing for overhead crane, fresh water tank, fuel tank, and mold support using AutoCAD.

PROJECTS

Video-on-Demand Website | *Golang, TypeScript, React, GraphQL, MongoDB, Google Cloud Storage*

- Developed a full-stack online course platform, allowing administrators to manage courses and users to purchase content.
- Implemented Google, Facebook, Line OAuth to get data.
- Implemented secure video encryption, adaptive streaming based on device/internet speed.
- Automated payment processing. Connected with Omise payment gateway.

Mini Online Market | *JavaScript, React, Material UI Java, Maven, Spring Boot, Spring Security, Postgres, Docker*

- Developed full-stack web application. Allowing the seller to sell the product and the client to buy and give a product review.
- Secure API endpoint with Spring Security.
- Develop front-end with React and styled with Material UI .
- Complied the code and built docker image.

Dental Surgery API | *Java, Gradle, Spring Boot, Spring Security, Postgres, JUnit, Docker, AWS EC2*

- Build web API. Allow the office manager to register the patient and the dentist in the system. Patient and office manger can manage appointment. Dentist can see appointment.
- Secure API endpoint with spring security.
- Implemented unit test using JUnit.
- Complied the code and built docker image.
- Deployed the artifact to AWS EC2.

Banking System | *Java, Swing*

- Built a desktop banking application with Savings and Credit Card account functionalities.
- Applied the Observer Pattern for alert notifications.
- Applied the Strategy Pattern for flexible logging, ensuring system scalability and maintainability.

TECHNICAL SKILLS

Languages: Golang, Java, Python, JavaScript, TypeScript, HTML/CSS, Json, gRPC, GraphQL

Databases: SQL (Postgres) No-SQL (MongoDB), Elasticsearch

Frameworks: React, Next.js, Express, Node.js, JUnit, Material-UI, Elastic-UI, TailwindCSS, Emotion

Developer Tools: Git, Docker, AWS, Google Cloud Platform, Postman, Swagger, VIM, VS Code, IntelliJ

Programs: AutoCAD, Rhino, Inventor, Straus7, Wolfson Unit, Microsoft Word, Microsoft Excel