

Shaun Lee Wei Jie

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 github |  linkedin

EDUCATION

Specialist Diploma in Full Stack Software Development with Java

DigiPen Institute of Technology - Technology in Finance Immersion Programme (TFIP)

Feb 2024 - Aug 2024

Singapore

Bachelor of Engineering w/ Honours in Systems Engineering (Mechatronics)

Aug 2015 - Aug 2017

SKILLS

Programming Languages & Frameworks

Java | Python | JavaScript | SQL | Spring Boot | React.js | Node.js | Django | Flask

Technologies & Tools

Docker | Kubernetes | Git | Jenkins | Bitbucket | SonarQube | JFrog | Kafka | RESTful APIs

Cloud & Security

CI/CD Pipelines | OAuth 2.0 | JSON Web Token (JWT)

Software Development Practices

Microservices Architecture | Object-Oriented Programming (OOP) | Agile | Scrum | Test-Driven Development (TDD) | Debugging

EXPERIENCE

Development Bank of Singapore Limited, DBS Bank Ltd

Feb 2024 - Present

Backend Software Engineer

Singapore

- Maintained high-performance backend services for peer-to-peer (P2P) payments and financial transactions using Java Spring Boot, ensuring reliability and scalability.
- Built, and optimized RESTful APIs to facilitate seamless communication between payment microservices, enhancing system efficiency and interoperability across DBS applications.
- Implemented CI/CD pipelines using Jenkins, Bitbucket, and JFrog to automate build and deployment processes.
- Enhanced system performance by writing and optimizing functional tests, to increase the coverage in payment-related services.
- Gained hands-on experience with DevOps tools such as Docker, Kubernetes, and SonarQube, ensuring scalable cloud infrastructure and maintaining code quality.
- Researched, troubleshooted, and resolved backend issues in payment-initiation, payment-inquiry, payments-p2p, payment-events, and remittance-limit services, improving service reliability.
- Collaborated with cross-functional teams (frontend, DevOps, QA, and product teams) to ensure smooth integration of services and improve system resilience.
- Contributed to technical documentation, maintaining clear and concise records of system designs, API endpoints, and troubleshooting guides for future reference.

StarVision IT Pte Ltd

Sep 2023 - Feb 2024

Application Specialist

Singapore

- Supported and optimized enterprise HR e-business solutions, ensuring seamless functionality and high performance for clients.
- Collaborated with software development teams to troubleshoot system bugs, provide user feedback, and enhance the user experience (UX) of business applications.
- Conducted system testing, debugging, and quality assurance (QA) for new software features and updates, ensuring compliance with business requirements.
- Provided technical support and training to clients, improving adoption and usability of company software solutions through hands-on guidance and clear documentation.
- Worked closely with stakeholders, gathering requirements and translating business needs into functional application enhancements.

Republic of Singapore Navy (RSN)

May 2018 - Sep 2023

Naval Engineering Officer

Singapore

- Led the maintenance and operational readiness of combat and electronic systems aboard RSN vessels, ensuring peak performance during deployments.
- Managed logistics and procurement for overseas missions, coordinating with international vendors to maintain supply chain efficiency.
- Diagnosed and resolved system malfunctions, enhancing combat system reliability and minimizing operational downtime.
- Oversaw logistics and engineering operations for Frigate and Landing Ship Tank radar systems, ensuring mission readiness.
- Led a team of 6 engineers to provide technical support and maintenance, improving operational efficiency of RSN's fleet.
- Conducted project management and system troubleshooting, optimizing engineering workflows for mission-critical systems.

NOTABLE PROJECTS

Magic: The Gathering Card Finder

Jan 2025 - Present

Full Stack Application

- A personal project aiming to create a price comparison platform for Magic: The Gathering (MTG) players and enthusiasts. The platform allows users to search for specific MTG cards, view detailed card information, and instantly compare prices and availability across multiple local game shops.
- Developing a full-stack web application using React.js and Spring Boot, providing a seamless and interactive user experience for searching and comparing Magic: The Gathering card prices.
- Implementing web scraping techniques to aggregate real-time price data from multiple online stores, ensuring accurate price comparison and availability updates.
- Containerizing services using Docker for efficient deployment and scalability, ensuring smooth performance across various environments.

Penny – Financial Calculator and Tracker

Jun 2024 – Aug 2024

Full Stack Application - Java, React.js

[Financial Tracker GitHub Repository](#)

- A full-stack web application built with Spring Boot and React.js, designed to help users efficiently track expenses, income, and budgets in real-time. The platform provides a user-friendly interface for financial planning, enabling users to gain insights into their spending habits and maintain better financial discipline.
- Developed a full-stack web application using Spring Boot and React.js, enabling users to track expenses, income, and budgets in real time.
- Designed and implemented RESTful APIs to facilitate secure transaction logging, ensuring efficient data synchronization between the frontend and backend.
- Integrated scheduled payments and recurring transactions functionality, allowing users to automate tracking of fixed expenses (e.g., rent, loans) and recurring income (e.g., salary).
- Implemented a budget management system that enables users to set category-based budget limits and receive notifications when thresholds are exceeded.
- Developed data visualization components using interactive charts to provide financial insights and spending trends analysis.
- Implemented JWT-based authentication to ensure secure user access and data privacy, preventing unauthorized access to financial records.