

HOANG SON THACH

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PROFESSIONAL EXPERIENCE

THOUGHTWORKS, Ho Chi Minh City, Vietnam 11/16/2022 – 0728//2024

Thoughtworks, a global tech consultancy founded in 1993 in Chicago, operates in 48 offices with over 10,000 employees.

Full Stack Software Engineer

Developed, designed, and consulted on Financial Service Systems and Social Impact Project

- Prevented \$5M+ in revenue losses by implementing a financial settlement feature using Java and Kotlin, resolving critical discrepancies in transaction processing and ensuring accurate financial reporting.
- Developed scalable and high-performance payment solutions with Java, JavaScript, and AWS, processing over 100M invoices and facilitating \$750M+ in transactions while improving system reliability and reducing payment failures.
- Designed and deployed an event-driven architecture using AWS Lambda and SQS, optimizing transaction workflows, reducing payment processing time by 64%, and enhancing system scalability for peak loads.
- Created a centralized health monitoring dashboard for 10+ microservices using Prometheus, Grafana, and Splunk, reducing payment errors by 87%, improving response times, and streamlining error resolution for critical transactions.
- Refactored tightly coupled API logic for the invoice page using React and Node.js, improving system scalability, reducing user wait times by 48%, and enhancing overall transaction throughput.
- Led and executed a critical database upgrade for six high-traffic services, including invoice, settlement, and payment processing, ensuring compliance with regulatory standards, preventing a 100% cost increase, and minimizing downtime to just 10 minutes—20 minutes faster than the projected timeline.

Technologies Used: Java, JavaScript, Kotlin, Spring Boot, Express, React, Amazon Web Services, Kubernetes, Docker.

MONEY FORWARD, Ho Chi Minh City, Vietnam 07/12/2021 – 11/14/2022

Japanese fintech firm founded in 2012, serving 15M users and 300K businesses with cloud accounting solutions.

Mid Senior Full Stack Software Engineer

Developed and deployed web services.

- Implemented payment processing features for share purchases using Java, Ruby and JavaScript, addressing integration challenges and increasing transaction volume by 25% through optimized workflows.
- Developed and optimized transaction recording pipelines with Ruby on Rails and SQL, ensuring data integrity for 1,000+ financial institutions and streamlining high-volume payment operations.
- Resolved a major security vulnerability by implementing a middleware-based authentication system, reducing development time from 3 months to 2 weeks and preventing unauthorized access to premium features, strengthening system security and user trust.

Technologies Used: JavaScript, Java, Python, ReactJS, CI/CD, Docker, Ruby, Ruby on Rails, SQL, MySQL, PostgreSQL.

EDUCATION

Master of Science in Computer Science

(Start from 08/06/2024. In progress via distance education; expected completion 04/10/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Modern Web Applications, Web Application Architecture, Enterprise Architecture

Bachelor in Computer Science

Ho Chi Minh City University of Technology, Ho Chi Minh City, Vietnam (08/2018-06/2022)