

ROBERT THACH

Fairfield, Iowa 52556 • +1-641-233-1546 • robert.thach68@gmail.com
<https://www.linkedin.com/in/robertthach68/>

JAVA DEVELOPER

Full Stack Software Engineer with over 5 years of total experience, including 3 years in professional roles and over 2 years in freelancing. Proficient in Java, Kotlin, and Spring Boot, with a strong background in developing scalable and high-performance systems. Designed and implemented a financial settlement feature that prevented over \$5M in revenue losses by utilizing data-driven analysis to resolve critical issues. Adept at collaborating across teams, proactively identifying and solving problems, and driving impactful technical solutions that enhance business success and operational excellence.

- Problem Solving • Performance Optimization • Microservices • Cloud Computing • Database Design • CI/CD
- Event-Driven Architecture (EDA) • Containerization • Test-Driven Development (TDD)

Languages: Java, JavaScript, Python

Web: ReactJS, Tailwind, HTML, CSS, SCSS, Bootstrap, Figma, UI, UX, Angular, JSON

Web Services: REST API

Web/App Servers: Tomcat, Nginx, Puma

Frameworks: Spring Boot, Spring JPA, Spring Security, Spring Cloud, Hibernate, Ruby-on-Rails, Express, Angular

Databases: Relational database, NoSQL, MySQL, PostgreSQL, MongoDB, DynamoDB, DocumentDB, Redis

Design Patterns: Singleton, Decorator, Strategy, State Machine, Factory

SDLC: Agile, Scrum, Kanban

Tools: Snowflake, Sumo Logic, Buildkite, Grafana, Google Analytics, Google Search Console, Prometheus, Split.io, Git, GitHub, Jira, Docker, Jenkins, Slack, AWS (S3, EC2, DynamoDB, Lambda, RDS, CloudWatch), Kubernetes, Terraform, PostgreSQL, MySQL, Redis, Kafka

Platforms: Windows, Linux, MacOS

Big Data: Kafka, RabbitMQ, PyChain, AWS Bedrock

Application/Software: Snowflake, Sumologic, Buildkite, Grafana, Google Analytic, Google Search Console, Prometheus, Split IO, CircleCI

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

THOUGHTWORKS, Ho Chi Minh City, Vietnam • 11/2022 – 07/2024

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, consulted on Financial Service Systems.

- 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 • 07/2021 – 11/2022

Japanese fintech firm founded in 2012, serves 15M users and 300K businesses with cloud accounting solution

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
- Optimized record view event performance for a new media website by integrating Redis caching, reducing response time by 99%, significantly improving page load speed and user experience while lowering database query load
- Integrated an ad campaign system for a new media website, optimizing ad placements and targeting strategies, resulting in a 20% increase in revenue while maintaining seamless user experience and performance efficiency

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

FREELANCE EXPERIENCE

Upwork, Ho Chi Minh City, Vietnam • 08/2018 – 07/2021

Freelancing platform.

Full Stack Software Engineer

Developed and deployed web services.

- Delivered freelance full-stack development services, creating scalable applications using ReactJS, Node.js, Ruby, and Java, tailored to diverse business requirements.
- Advised on the development of a university website using Java and Spring Boot, designing secure, scalable architecture while enhancing UI/UX and backend performance for long-term maintainability.
- Built a full-stack eCommerce platform with React and Spring Boot, optimizing performance, user experience, and payment processing, resulting in a 15% revenue increase through improved engagement and conversion rates.

Technologies Used: JavaScript, Java, Python, Spring Boot, Ruby, ReactJS.

ACADEMIC PROJECTS

Maharishi International University (2024)

Job Advisor Platform: Developed a career platform leveraging RAG and Generative AI to enhance job search and career guidance. Led its development, pitched it to a professor and the career center, and received recognition in a school article along with verbal confirmation for integration into the career center's system.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

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 (06/2022)