

# MIKE DINH

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## JAVA SOFTWARE ENGINEER

Java/Spring backend engineer with 5+ years of experience designing high-performance, scalable systems across HFT, marketing, and advertising platforms. Specialized in microservices, distributed systems, data pipelines, and performance-critical architectures. Proven impact modernizing tech stacks, optimizing rule engines and analytics pipelines, and improving reliability through automation and robust testing frameworks. Skilled in Java, Scala, Spring Boot, Quarkus, SQL/NoSQL, and cloud-native tooling. Recognized for delivering maintainable solutions that balance engineering excellence with real business value.

- Web services • Object Oriented Programming (OOP) • Development and Implementation • Microservices
- Design Pattern • Dependency Injection • Algorithms and Data structures

**Languages:** Java, Scala, C/C++, Python, JavaScript, Typescript

**Web:** HTML, CSS, React

**Web Services:** REST, JSON

**Web/App Servers:** Apache, Tomcat

**Frameworks:** Quarkus, Spring(MVC, Boot, Data, Security, Dependency Injection, Webservice, AOP, AWS, Kafka, JMS, Integration, Batch, AI), Play Framework

**Databases:** Postgres, MySQL, Elasticsearch, DynamoDB

**Design Patterns:** Singleton, Composite, Facade, Builder, Factory Method, Iterator, Strategy, Facade

**SDLC:** Agile, Scrum

**Tools:** Maven, Scala sbt, Docker, Jira, Kafka, Git, GitLab, Jenkins, Docker, Docker Hub, npm, npx

**Platforms:** Windows, Linux, MacOS, Digital Ocean, Heroku, AWS

**Big Data:** Spark

**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).

## PROFESSIONAL EXPERIENCE

**LARION, Ho Chi Minh City, Vietnam • 08/2023 – 04/2025**

LARION is an outsourcing company that provides IT solutions to overseas clients.

### Java Developer

Contributed to the Investment Analytics module of a microservices based HFT platform.

- Architected Java/Spring Boot microservices and scalable MySQL pipelines capable of ingesting and transforming **multi-terabyte** datasets, enabling consistent, low-latency analytics for HFT research teams.
- Developed a Spring Boot, MySQL backend powering a feature rich dashboard for exploring and monitoring datasets.
- Migrated the QA framework from Python to Java, standardizing the tech stack, improving test execution speed by 40% and reducing debugging time for the QA team by ~30%."
- Engineered an automated correctness-testing suite that increased test reliability and eliminated **50%** of manual QA work, enabling faster and more consistent release cycles.
- Enhanced the Java-based testing framework with critical features and performance optimizations, boosting test coverage by **30%**
- Received multiple quarterly employee awards for outstanding performance.

**Technologies Used:** Java, Spring Boot, Hibernate, C++, Python, Bash, MySQL, Git, GitLab, Jenkins, Docker.

**PRIMEDATA.AI, Ho Chi Minh City, Vietnam • 12/2022 – 07/2023**

A marketing tech company providing solutions to help small businesses improve sales.

### Backend Engineer

Designed and optimized core data and rule-processing systems that power high-volume marketing operations.

- Collaborated as a core member of the Data Modeling team, building and optimizing the rule engine, a key component of the Customer Data Platform (CDP) supporting large-scale marketing operations.
- Migrated Elasticsearch indexes to PostgreSQL, enabling transactional support and boosting system uptime by **30%** for critical platform services.
- Replaced legacy Hazelcast caching with Redis, improving scalability, reliability, and cache performance across distributed services.
- Migrated Unomi's Hazelcast-backed cluster to a centralized Redis cache, enabling easier management and reliability..

**Technologies Used:** *Java, Scala, Python, OSGi, SpringBoot, Hibernate, Quarkus, Elasticsearch, Kafka, Postgres, Redis.*

#### **VNG CORPORATION, Ho Chi Minh City, Vietnam • 01/2021 – 12/2022**

VNG specializes in digital content, online entertainment, social networking, and e-commerce.

##### **Software Engineer**

Developed, and maintained microservices for advertising components.

- Implemented automated license and rules features for Vietnam's largest advertising platform, enabling faster onboarding and campaign setup for advertisers using Java, Scala, Play, MySQL.
- Standardized JSON processing by migrating from Play's default JSON library to Circe, improving code consistency and maintainability across services.
- Designed and developed the most widely used top-up method, replacing the legacy system and powering **multi-million-dollar monthly** transactions with higher payment reliability.
- Optimized reporting pipelines, reducing report generation time by 50% and enhancing decision-making speed for business users.
- Leveraged HashiCorp Vault to securely manage credentials, improving operational reliability.
- Implemented a reconciliation tool to absolutely resolve monthly payment errors, enhancing reporting reliability.

**Technologies Used:** *Scala, Java, SpringBoot, PlayFramework, MySQL, HashiCorp Vault.*

### **INTERNSHIP EXPERIENCE**

#### **VNG, Ho Chi Minh City, Vietnam • 05/2020 – 12/2020**

VNG specializes in digital content, online entertainment, social networking, and e-commerce.

##### **Software Development Fresher**

Develop and maintain gameplay features, UI, animations, and game logic using Cocos2d-JS.

- Selected for VNG's prestigious fresher program, chosen as one of only 50 candidates from 1,600+ applicants.
- Collaborated within a 4-member team in the Game Department to design and develop a full game project.
- Delivered a fully working game within 3 months and earned a full-time offer based on performance.

**Technologies Used:** *Java, JavaScript, Cocos2d, Git, Jenkins.*

### **ACADEMIC PROJECTS**

#### **Maharishi International University (2025)**

**BabyURL:** Developed a full-stack URL shortening platform similar to TinyURL using Spring Boot (Java) and React. Implemented REST APIs for URL generation and redirection, integrated MySQL for persistent storage and analytics, and built a responsive frontend for link management and custom aliases. Utilized Java, Spring Boot, React, HTML, CSS.

**Voting System:** Built a full-stack, high-performance voting system using Java/Spring Boot microservices and React/HTML/CSS, handling millions of concurrent votes with low latency and real-time aggregation.

### **EDUCATION**

#### **Master of Science in Computer Science**

*(In progress via distance education; expected completion 12/2027)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** *Enterprise Architecture, Software Architecture, Software Engineering, Algorithms*

#### **Bachelor of Science in Computer Science**

Ho Chi Minh City University of Science, Ho Chi Minh City, Vietnam (05/2021)