

## MIKE DINH

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### SOFTWARE ENGINEER

#### WORK EXPERIENCE

##### WorldQuant

Aug 2023 – April 2025

###### Software Developer Consultant

- Designed and developed core microservices using Java, Spring Boot and MySQL high performance QA data pipelines to ingest multi format data (XML, JSON, CSV) and transform it into structured, real time analytics pipelines supporting high frequency trading (HFT) strategies.
- Developed a Spring Boot backend powering a feature rich dashboard for dataset exploring and monitoring.
- Migrated the QA framework from Python to Java, standardizing the techstack and improving debugging efficiency and tooling consistency.
- Engineered an automated correctness testing suite, enhancing test reliability, reducing manual QA efforts, and enabling faster release cycles.
- Developed the Java based testing framework, adding critical features and performance improvements that increased test coverage and execution speed for the entire QA team.
- Recognized with multiple quarterly employee awards for exceptional contributions and performance.

**Technologies:** Java, Spring Boot, Spring Integration, C++, Python, Bash

##### PrimeData.ai

Dec 2022 – July 2023

###### Backend Engineer

- Served as a core member of the Data Modeling team, designing and optimizing the rule engine, a central component of the Customer Data Platform powering large-scale marketing operations.
- Migrated Elasticsearch indexes to PostgreSQL, adding transactional support and improving system uptime by 30% for mission-critical platform services.
- Replaced legacy Hazelcast caching with Redis, enhancing scalability, reliability, and cache performance across distributed microservices.
- Contributed to the migration of the application framework from OSGi to Quarkus, modernizing the tech stack for improved performance, maintainability, and developer productivity.

**Technologies:** Java, Scala, Python, OSGi, Spring Boot, Quarkus, Elasticsearch, Redis, Postgres, Apache Unomi.

##### VNG CORPORATION

May 2020 – Dec 2022

###### Software Engineer

- Implemented automated license and rules features for Vietnam's largest advertising platform, enabling faster onboarding and campaign setup for advertisers using Scala/Java, MySQL, Play.
- Designed and developed the platform's most widely used top up method, replacing the legacy system and improving payment reliability and user experience.
- Optimized reporting pipelines, reducing report generation time by 50% and enhancing decision making speed for users.
- Leveraged HashiCorp Vault to securely manage credentials, improving operational reliability.
- Implemented a reconciliation tool to resolve monthly payment errors, enhancing reporting reliability

**Technologies:** Java, Scala, Akka, Spring Boot, PlayFramework, MySQL

#### TECHNICAL SKILLS

**Programming Languages:** Java, Scala, C/C++, Python, Javascript

**Frameworks/Platforms:** Spring (MVC, Boot, Data, Security, Cloud, AOP, AWS, Kafka, JMS, Integration, Batch, AI), Play Framework, Quarkus, Hibernate, JPA, JDBC, TestNG, JUnit, Restful API, GraphQL, AWS, DigitalOcean.

**Databases:** MySQL, PostgreSQL, Elasticsearch, Redis

**Others:** Algorithms and Data Structures, Docker, Linux, CI/CD, Distributed System Design, Microservices, Design Patterns, Agile Methodologies, Test Driven Development, Domain Driven Design, Event-Driven Architecture, Object Oriented Programming.

#### EDUCATION

**Maharishi International University**, Fairfield, IA

May 2025 – December 2027

Master of Science in Computer Science

**Ho Chi Minh City University of Science**, Ho Chi Minh City, Vietnam,

August 2017 – June 2021

Bachelor of Science in Computer Science