MIKE DINH
+1-641-233-9863 | michaelq1503@gmail.com | https://www.linkedin.com/in/quynhvdinh

SOFTWARE ENGINEER

Results driven Software Engineer with 5 years of experience specializing in enterprise backend architecture and development using Java and the Spring Boot ecosystem. Proven track record of designing and building scalable, high-performance systems for advertising and financial platforms. Skilled in architecting RESTful microservices. Experienced across the full Software Development Life Cycle (SDLC) from requirements analysis to deployment and maintenance with a strong focus on system scalability, automation, and operational efficiency. Adept at leveraging a wide range of Spring technologies to deliver robust enterprise solutions. Passionate about coding, continuous learning, technical excellence, and applying engineering best practices to solve meaningful problems. Share about programming and software engineering on Medium.

TECHNICAL SKILLS

Programming Languages: Java, Scala, C/C++, Python, Javascript
Frameworks/Platforms: Spring (MVC, Boot, Data, Security, Dependency Injection, Webservice, AOP, AWS, Kafka, JMS, Integration, Batch, AI), Play Framework, Quarkus, Hibernate, JPA, JDBC, TestNG, JUnit, Restful API, GraphQL.
Databases: MySQL, PostgreSQL, Elasticsearch, Redis
Cloud: AWS, Heroku, Vercel, Digital Ocean
Others: Docker, Linux, CI/CD, Distributed System Design, Microservices, Agile Methodologies, Scrum, Test Driven Development, Domain Driven Design, Event-Driven Architecture, Object Oriented Programming

WORK EXPERIENCE

WorldQuant   08/2023 - 04/2025
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.
- Domain focus: Investment analytics, extracting actionable insights from large datasets to generate alpha signals and outperform market benchmarks.
  Technologies used: *Java, Spring Boot, Spring Integration, C++, Python, Bash*

PrimeData.ai   01/2022 - 07/2023
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 (CDP) 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 used: *Java, Python, OSGi, Spring Boot, Quarkus, Elasticsearch, Redis, Postgres, Apache Unomi.*

VNG CORPORATION   05/2020 - 12/2022
Software Engineer

- Implemented automated license and rules features for Vietnam's largest advertising platform, enabling faster onboarding and campaign setup for advertisers.
- Standardized JSON processing by migrating from Play's default JSON library to Circe, improving code consistency and maintainability across services.
- 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 business users.
- Leveraged HashiCorp Vault to securely manage credentials, improving operational reliability.
- Implemented a reconciliation tool to resolve monthly payment errors, enhancing reporting reliability
  Technologies used: *Java, Scala, Spring Boot, PlayFramework, MySQL, HashiCorp Vault*

EDUCATION

Maharishi International University, Fairfield, Iowa,   05/2025 - 12/2027
Master of Science in Computer Science

Ho Chi Minh City University of Science, Ho Chi Minh City, Vietnam,   08/2017-06/2021
Bachelor of Science in Computer Science