MIKE DINH

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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, enabling seamless data processing and real-time analytics. 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 (Spring Boot, Spring Cloud, Spring Security, Spring Data) to deliver robust enterprise solutions. Passionate about coding and problem solving; skilled in algorithms, data structures, and sharing programming insights on Medium.

TECHNICAL SKILLS

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

Frameworks/Platforms: Spring (MVC, Boot, Data, Security, Dependency Injection, Webservice, AOP, PCF, AWS, Kafka, JMS, Integration, Batch, AI), Play Framework, Quarkus, Hibernate, JPA, JDBC, Liferay, Mockit, TestNG, JUnit**,** Htmx, Restful API, GraphQL, Git

Databases: MySQL, PostgreSQL, Elasticsearch, Redis

Cloud: AWS, Heroku, Vercel, Digital Ocean

Other: 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   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 based backend powering a feature rich dashboard for exploring and monitoring datasets.
- Migrated the QA framework from Python to Java, standardizing the techstack through better debugging and tooling.
- Engineered an automated correctness testing suite, significantly improving test reliability and reducing manual QA efforts, 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.
- Received multiple quarterly employee awards for outstanding performance.
- Domain focus: Investment analytics, extracting insights from large datasets to generate alpha signals and outperform the market.
  Technologies used: *Java, Spring Boot, C++, Python, Bash*

PrimeData.ai   Dec 2022 – July 2023
Backend Engineer

- 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.
- Supported migration of the application framework from OSGi to Quarkus, modernizing the tech stack for better performance and maintainability.
  Technologies used: *Java, Python, OSGi, SpringBoot, Quarkus, Elasticsearch, Redis, Postgres*

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.
- 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, SpringBoot, PlayFramework, MySQL*

EDUCATION

Maharishi International University, Fairfield, Iowa,   May 2024 – December 2027
Master of Science in Computer Science

Ho Chi Minh City University of Science, Ho Chi Minh City, Vietnam,   September 2017 – June 2021
Bachelor of Science in Computer Science