

# Ethan Miller

## Senior Java Backend Developer

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### PROFESSIONAL SUMMARY

Highly proficient and results-oriented Senior Java Developer with 5+ years of experience in designing, developing, and deploying scalable, high-performance, and resilient backend systems. Expertise in the full software development lifecycle (SDLC) using Agile methodologies. Proven ability to architect and implement microservices utilizing Spring Boot, Spring Cloud, and RESTful APIs, along with strong command over relational and NoSQL databases. Dedicated to writing clean, maintainable code and collaborating effectively across cross-functional engineering teams to drive business success.

### KEY PROJECTS & ACHIEVEMENTS

- **Microservices Migration:** Led the successful migration of a monolithic enterprise application (1M+ daily users) to a Spring Boot microservices architecture, resulting in a **40% reduction in latency** and improved deployment frequency.
- **High-Performance API Development:** Developed and optimized RESTful APIs for real-time inventory management, handling peak loads of over 500 requests per second with an average response time under 100ms.
- **Database Optimization:** Rewrote critical SQL queries and optimized Hibernate mappings, improving report generation time by **75%** and significantly reducing database load.
- **CI/CD Pipeline Integration:** Implemented automated unit, integration, and end-to-end tests using JUnit and Mockito within a Jenkins CI/CD pipeline, increasing code coverage to over 85%.
- **Cloud Deployment:** Deployed and managed microservices using Docker and Kubernetes on AWS (EC2, S3, RDS), ensuring high availability and fault tolerance.

### TECHNICAL SKILLS

- **Core Languages & Platform:** Java 8/11/17, OOP, J2EE, Spring Core, Spring Boot, RESTful Services.
- **Frameworks & Libraries:** Spring MVC, Spring Data JPA, Hibernate, Microservices, JUnit, Mockito, Lombok.
- **Databases & Messaging:** PostgreSQL, MySQL, Oracle, MongoDB, Redis, Kafka, RabbitMQ.
- **Cloud & DevOps:** Amazon Web Services (AWS), Docker, Kubernetes, Jenkins, Git, Maven, Gradle.
- **Tools & Methodologies:** IntelliJ IDEA, Postman, Swagger/OpenAPI, Agile (Scrum/Kanban), Git, TDD.

### PROFESSIONAL EXPERIENCE

#### Senior Software Developer

*Financial Tech Solutions, Inc.*

**May 2022-Present**

Chicago, IL

- Architected and developed scalable backend systems using Java 17 and Spring Boot for a high-frequency trading platform.
- Designed secure, low-latency REST APIs for client data exchange and order execution, integrating OAuth2 for authentication.
- Utilized Kafka streams for asynchronous communication between microservices, ensuring eventual consistency across distributed transactions.
- Wrote comprehensive unit and integration tests, participating in code reviews to maintain high quality and adherence to coding standards.
- Collaborated with DevOps to manage Kubernetes deployments and troubleshooting production issues in a 24/7 environment.

#### Software Developer

*Digital Health Partners*

**Aug 2020-May 2022**

Austin, TX

- Developed key features for an electronic health record (EHR) system using Java 11, Spring MVC, and Hibernate.
- Managed PostgreSQL database schema migrations and optimizations using Flyway.
- Implemented robust error handling and logging using Log4j2 and Prometheus for monitoring application health.

- Participated in daily Scrum meetings, sprint planning, and backlog grooming in a fast-paced Agile environment.

## EDUCATION

- **Master of Science (M.S.) in Software Engineering**

*Thesis: Distributed Transaction Management in Microservices*

**University of Texas at Austin**

Austin, TX (2019–2020)

- **Bachelor of Science (B.S.) in Computer Science**

*Graduated with High Honors*

**Purdue University**

West Lafayette, IN (2015–2019)