

Arjun Borkhatariya

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Software Engineer with 5+ years of experience building scalable web applications and distributed systems using Java, React, AWS, Kafka, and SQL. Experienced in developing backend microservices, integrating customer-facing workflows, and collaborating across product, UX, and engineering teams to deliver reliable end-to-end features. Strong background in cloud platforms, APIs, and high-availability systems, with a focus on building simple, maintainable solutions to real business problems.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C++

Frontend: React, HTML, CSS

Backend: Spring Boot, REST APIs, Microservices, Kafka, RabbitMQ

Cloud & DevOps: AWS, Docker, Kubernetes, OpenShift, Jenkins, CI/CD, Linux

Databases & Caching: SQL, PostgreSQL, MySQL, Redis, GemFire, NoSQL

Testing & Observability: JUnit, Cucumber (BDD), Spock, JMeter, Datadog, Instana, Kibana, Git

Experience

Senior Associate Application Engineer, Discover Financial Services

Chicago, IL, May 2023 – Present

- Designed and delivered **backend services** for a high-volume **Rewards Redemption platform processing 1,400+ TPS**, supporting real-time reward redemption and financial transaction workflows.
- Led migration of critical production services from **Pivotal Cloud Foundry (PCF) to OpenShift (Kubernetes)**, enabling containerized deployments while maintaining **zero downtime and 99.9%+ service availability**.
- Built **Spring Boot-based microservices and REST APIs** integrated with **Kafka event-driven pipelines** to power real-time notifications, enrollment workflows, and rewards redemption services.
- Developed the **Automatic Statement Credit service**, enabling seamless rewards redemption and automated credit processing for thousands of Discover card users.
- Collaborated with **product managers and UX teams** to deliver automated rewards enrollment capabilities, improving adoption of redemption features for end users.
- Implemented **test-driven development (TDD)** using **JUnit and Cucumber**, and built **CI/CD pipelines with Jenkins** to support reliable and continuous backend service delivery.
- Improved **system observability and production monitoring** by implementing **Datadog dashboards and alerting** along with centralized logging using **Kibana**, enabling faster detection and resolution of production incidents.

Software Development Engineer, Amazon

Seattle, WA, July 2022 – April 2023

- Migrated an existing financial service to **Amazon CloudAuth**, configuring **AWS IAM policies, Route 53 DNS routing, and VPC endpoints** to enable secure client authentication for systems processing 1M+ transactions per hour with no service disruption.
- Optimized AWS Lambda memory configuration for a data ingestion pipeline moving data from **Amazon S3 to CloudSearch**, improving runtime efficiency and reducing **infrastructure costs by 30%**.
- Built a **Java-based CLI testing tool** to validate a rule execution service, enabling teams to simulate inputs and verify generated attributes across multiple financial domains and regions.
- Supported on-call operations and production reliability for the eCommerce Foundation Financials platform, which powers Amazon's **global financial transaction processing systems**.

Software Development Engineer, Emxcel

Ahmedabad, India, May 2019 – December 2020

- Built backend APIs using **Python and FastAPI**, improving response performance by **about 20%** compared to the previous Flask implementation.

- Developed a **customer support chatbot using Python and the Rasa framework** to automate responses for common user queries.
- Implemented **auto-suggestion functionality** in the chatbot interface, increasing user engagement by 18%.
- Built **authentication and authorization workflows** and deployed backend services on **DigitalOcean cloud infrastructure**.

Software Development Engineer, Infoware

Ahmedabad, India, *January 2018 – May 2019*

- Developed a **computer-adaptive testing system in Python** to dynamically adjust question difficulty based on predicted student performance.
- Built a prototype to **generate assessment questions from text using natural language processing (NLP)** techniques.
- Implemented **web scraping and text-processing pipelines in Python** to collect and prepare datasets used for testing and evaluating model accuracy.

Education

Master of Science in Computer Software Engineering, Arizona State University - Tempe, AZ | *May 2022*

Bachelor of Technology in Information and Communication Technology, Ahmedabad University - Ahmedabad, India | *May 2018*