BAT-ORSHIKH BAATAR "BAT"

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Senior Software Engineer · Java & Distributed Systems

Summary

Senior software engineer with 8+ years of experience building high-traffic, low-latency backend services for e-commerce. Designed, built and launched the microservices behind hundreds of millions of search engine optimization (SEO) landing pages, with category pages alone averaging over 100M hits a day. Shipped A/B-tested features, including a filter change that lifted gross merchandise bought (GMB) 18.07%, and led cross-team projects from design through launch. Built an agentic AI pipeline on Claude Code that carried every pull request of the final year from ticket to review. Experience spans Java, Spring Boot, REST and GraphQL API design, search and embedding-based retrieval, microservice migrations and production debugging.

Skills

- **Languages:** Java, TypeScript, JavaScript, Node.js, Python, SQL
- **Backend and architecture:** Spring Boot, microservices, distributed systems, software architecture and design, REST APIs, GraphQL, Netflix DGS, OpenAPI, backend-for-frontend (BFF), JUnit, JMeter load testing
- **Data, messaging and search:** Oracle, MongoDB, Redis, Apache Kafka, Guava caching, distributed search engines, embedding-based retrieval
- **Observability:** Prometheus metrics, Grafana dashboards, alerting, centralized logging, p95 latency tracking
- **CI/CD and deployment:** Git, Maven, Docker, Docker Compose, Kubernetes, CI/CD, feature flags, staged rollouts, rollbacks
- **Experimentation:** A/B test design, instrumentation and readouts
- **Agentic AI and development:** Claude Code agent pipelines, Model Context Protocol (MCP) with the Jira MCP server, CLAUDE.md context files, LLM coding agents (Claude Code, Cursor, Codex)
- **Frontend:** MarkoJS, AngularJS, HTML, CSS

Experience

eBay Inc. - San Jose, California

Member of Technical Staff 1 | Mar 2025 - Oct 2026

Tech: Java, Spring Boot, GraphQL, REST, TypeScript, Node.js, Claude Code, MCP, embedding-based retrieval, Kubernetes, Docker, Maven, CI/CD

- Built an agentic AI pipeline on Claude Code and a Jira MCP server that turned spike documents into tickets and took each ticket to a pull request, shipping every pull request of the final year through it.
- Designed and built price ranges and listing counts for trading-card variants from a search-engine histogram, lifting item-page conversion after a variant click by about 16%.
- Migrated the category-page listings grid to a GraphQL page platform across 10+ sites, catching three missing legally required labels during the staged rollout.
- Integrated a distributed search engine into three backend services and built embedding-similarity retrieval for review highlights, served at a 99.75% service-level objective (SLO).
- Architected and built a backend access check, served over GraphQL and REST APIs, to keep teen accounts out of prohibited categories.

Software Engineer 3 | Feb 2023 - Mar 2025

Tech: Java, Spring Boot, Netflix DGS, GraphQL, REST, JMeter, Kubernetes

- Led the backend for a cost-per-click ads test that raised ads revenue about 5%, five times the forecast and roughly $2.2M a year annualized from the test, with launch held for a retest.
- Built the US test of separate vs grouped tiles for same-product parts listings, which with a UK and Germany test lifted sessions reaching product pages by up to 6% and launched in 8 markets.
- Moved a monolithic category-page backend's search results onto a shared listings microservice, raising listing click-through rate 2% and cutting pagination 8%.
- Developed a GraphQL product-page backend on Spring Boot and Netflix DGS in about 6 weeks, matching REST on p95 latency with 40% less CPU under load tests.
- Delivered the category-page backend for EU Digital Services Act (DSA) compliance on time for the EU deadline, including an EU kill switch and a listing-report menu.

Software Engineer 2 | Aug 2020 - Feb 2023

Tech: Java, Spring Boot, Python, JavaScript, MarkoJS

- Launched sticky filter chips to all mobile-web traffic, which increased GMB by 18.07% and transactions by about 15% in the top four markets.

- Replaced the filter sidebar with filter chips on eBay Motors category pages, more than doubling filter usage and raising gross merchandise volume (GMV) 1.6%.
- Restored the pipeline that publishes SEO URL rules to production after a network-policy change blocked every SEO, search and item-page team from releasing them.
- Owned about 20 biweekly backend releases end to end, running regression, load tests and traffic mirroring, and caught a partner team's error before production.
- Delivered EU Omnibus Directive seller labels on 11 European sites across desktop, mobile web, iOS and Android.

Trade and Development Bank - Ulaanbaatar, Mongolia

Leading Mongolian financial institution.

Software Engineer | Feb 2019 - Aug 2019

Tech: Spring Boot, PHP, JavaScript, AngularJS, HTML, CSS

- Developed backend and frontend features for internal banking systems and a credit-scoring system.
- Built, tested and ran user acceptance testing for the credit-scoring system.
- Recommended and delivered improvements to data visualization and reporting.

Asterisk Technologies - Ulaanbaatar, Mongolia

Technology company specializing in enterprise resource planning (ERP) projects.

Full Stack Developer | Jan 2017 - Feb 2019

Tech: Python, JavaScript, HTML, CSS

- Built and supported web applications and ERP projects for clients.
- Coordinated with an offshore development partner to build an online shopping app.

Education

- **Master's degree, Computer Science** - Maharishi University of Management, Fairfield, Iowa | Aug 2019 - Dec 2021. Built Java Spring Boot services with Apache Kafka producers and consumers in coursework.
- **Bachelor's degree, Software Engineering** - National University of Mongolia, Ulaanbaatar, Mongolia | Sep 2014 - Jun 2018