

# Akshay Kumar Basvaraj Kale

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## Summary

Results-driven and collaborative Software Development Engineer with **6+ years** of experience in designing and optimizing distributed systems, backend services, and microservices architectures across **e-commerce, logistics, and healthcare** domains. **Recognized** for leading and delivering 6+ major critical projects involving integrating Quick Service Restaurants, Donations, Split payments, SNAP EBT & building dev tools used across org by 7-Eleven. Currently **seeking to advance into a Senior Software Engineer position.**

## Experience

### Software Engineer II | 05/2023 - Present | 7-Eleven ( 7now Food Delivery App) | Dallas, TX

- Owned microservices across core e-commerce domains in a **distributed system** handling approximately **1M+ API requests/day** from IOS, Android & Web platforms with **99% availability**.
- Rearchitected **end-to-end** Cart, Checkout, and Order services to **integrate Quick Service Restaurants** along with 7-Eleven stores **driving a 10% increase in platform revenue**.
- Led **migration from AWS Lambda microservices to Spring WebFlux services on ECS**, delivering 30% higher throughput and significantly lowering infrastructure cost.
- **Optimized** Cart and Checkout **APIs** by replacing sequential calls with caching, fan-out and async workflows, **reducing latency 70% and** increasing cart to checkout conversions by 40%.
- Implemented **event-driven order orchestration** state machine to **manage post-checkout workflows (payment, fulfillment, delivery)**, including timeouts, retries, and partial-success handling.
- Led the **design and integration of a split-payment** architecture within the Order service, enabling multiple tenders like SNAP EBT, Cashback, Card etc with partial authorizations, **driving 30% cashback adoption and a \$30 to \$60 increase in average basket size**.
- **Standardized observability** across distributed systems via **Infrastructure as Code**, integrating **OpenTelemetry instrumentation with AWS CloudWatch and New Relic** to enforce SLO-driven monitoring and alerting **reducing MTTR** and improving incident **response reliability**.
- Developed **AI-assisted internal tooling** for proxy orchestration, transaction debugging, and configuration automation, removing manual operational bottlenecks and increasing developer productivity.
- Served as senior developer, **mentoring external teams on system design** and engineering standards while **conducting 30+ technical interviews** across US and India offices.

### Software Engineer | 07/2021 - 04/2023 | Amazon.com | Seattle, WA

- Designed and developed **large-scale, distributed Golang & Java applications** and services impacting core logistics business, increasing seller enrollments by **100K+ across 8 countries**.
- Implemented **microservices for handling and seller shipping charges for new marketplaces**, expanding global footprint and driving revenue growth.
- Developed a **multi-location store identifier system** managing over 50k+ stores, **reducing ambiguity** in invoicing and tax reporting for sellers.
- **Streamlined integration** of new delivery carriers and implemented **optimized carrier-selection algorithms** impacting 800k+ orders, **reducing order delivery time and costs**.
- **Revamped carrier orchestration** service by refactoring workflow logic and optimizing service integrations, **reducing latency 10%** and improving **shipment success** rates.
- Implemented Java & Python **integration testing** packages to establish a full **CI/CD pipeline**, automating deployments and **reducing manual testing effort by 1 week** per release.

### Associate Software Engineer | 07/2017 - 06/2019 | Accenture | Bangalore, India

- Developed a **data-intensive Healthcare and Life Sciences analytics product** that processed and **generated insights on clinical trial performance**, compliance, and study progress.
- Built an **end-to-end data ingestion and orchestration platform** enabling XML/CSV clinical data uploads or database integrations, **automating downstream** Informatica workflows and stored procedures to generate Tableau-ready datasets cutting pipeline **setup time by ~30 mins** and **reducing manual errors**.

- Designed and **optimized PostgreSQL stored procedures and queries** processing **2M+ records daily**, achieving a **20% improvement in latency**.

## Education

Masters in Computer Science | University of Texas at Dallas | 05/2021 | Dallas, TX

## Core Competencies

Distributed, Highly Scalable & Fault-Tolerant Systems • Microservices & Event-Driven Architecture • AWS & Azure Cloud Services • Infrastructure as Code • Backend Service Architecture • Full Stack Development • Performance Optimization & Asynchronous Processing • Observability (OpenTelemetry, CloudWatch, New Relic) • Technical Leadership & Hiring

## Technical Proficiencies

- **Programming Languages:** Java, Javascript, Golang, C, C++, Python, Unix, Bash
- **Database:** SQL, PostgreSQL, NoSQL, Cassandra, MongoDB
- **Cloud technologies:** AWS Lambda, DynamoDB, SNS/SQS, Redshift, S3, ECS, Kinesis, CloudWatch
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap, Flask, React.js, Node.js
- **Frameworks & Developer Tools:** Maven, Gradle, Apache Kafka, Docker, Kubernetes, Terraform, SpringBoot, Spring WebFlux, REST API, Git, Jira, Postman, Outlook

## Certificates

- **Microsoft Applied Agentic AI: Systems, Design & Impact** - In Progress | Completion Date - April, 2026
- **Microsoft AI Engineer Program** - In Progress | Completion Date - Aug, 2026