

Pranav Nigam

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Summary

Experienced Senior Software Engineer with over **5+ years** of backend-focused expertise. Skilled in building scalable microservices, optimizing cloud systems, and enhancing hiring and trading platforms.

Technical Skills

Languages: Java, Clojure, SQL, JavaScript, TypeScript

Backend & Data: Spring Boot, Distributed Systems, Batch Processing, Functional Programming

Cloud & DevOps: AWS (EMR, S3, CloudFormation), Kubernetes, Docker, Jenkins

Data & Storage: Hive, Avro, Azure SQL, Cosmos DB, MySQL, Elasticsearch

Other: System Design, Data Pipelines, CI/CD

Professional Experience

Senior Member of Technical Staff (SMTS), Oracle

05/2025 - Present

- Built **functional, pure-rule logic in Clojure** for evaluating multiple healthcare measures on pre-processed populations.
- Applied **schema/spec validation** and defensive programming to ensure correctness of clinical evaluations.
- Optimized rule execution for **high-volume population data**.
- Ran end-to-end pipelines by packaging changes as JARs and deploying them via **AWS CloudFormation** provisioned **EMR clusters**.
- Executed distributed EMR jobs to process populations at scale and persisted outputs to **Amazon S3 in Avro format**.
- Loaded Avro outputs into **Hive** and queried results to validate rule correctness and behavior across scenarios.

Software Engineer III, Walmart

10/2021 - Present

- **Built a scalable event-driven microservices system** for Walmart's Career Preference Team, optimizing the hiring process for **2.2 million** store associates through automation and backend efficiency.
- **Developing Unify Apply**, a centralized hiring platform integrating **Corporate, Home Office, Store Jobs, and Sam's Club Jobs**, enabling candidates to apply for multiple verticals from a single portal.
- **Standardized backend architecture** for Unify Apply, reducing API response time by **40%** and streamlining cross-vertical job applications.
- **Developed an API Gateway** to simplify vendor onboarding and external API access, saving **1000+ developer hours** annually.
- **Optimized response time and improved latency** for over **10 microservices**, achieving a **30% faster response time** by implementing multithreading, concurrency, caching, connection pooling, and efficient database indexing.
- **Led the integration of Indeed for hiring**, handling **400,000 applications** in **48 hours**, saving **\$500,000** and projecting **\$12M** in annual cost savings.
- **Optimized Kubernetes and Docker deployments**, cutting cloud costs by **30%** through smarter resource management.

Software Engineer, NovoInvent Software

06/2020 - 09/2021

- **Developed an automated onboarding module**, reducing manual onboarding efforts by **80%** and expediting customer onboarding by **70%**.

- Built and optimized Equity, Cambio, Bond, and IPO trading modules, increasing order placement efficiency by **35%** and transaction handling speed by **40%**.
- **Led direct engagements with stakeholders**, reducing feedback cycles by **30%** through efficient client communication and UAT sessions.

Projects

Poker Planning Tool (Walmart Internal)

- Designed and developed a **Task Estimation Tool** used by Walmart internal teams to estimate Jira tickets efficiently, saving Walmart approximately **\$17,000** annually.
- Built both **Online and Offline Modes**: In online mode, users can join a shared room and estimate story points in real time.
- Integrated the tool with **JIRA**, enabling automatic story point updates upon finalization.
- In offline mode, developers can vote on Jira tickets independently, streamlining backlog refinement.

Achievements

- Promoted from **Software Engineer II to Software Engineer III** for driving innovation and backend optimizations.
- Awarded **BRAVO Award** for designing a solution that streamlined job acceptance and onboarding alignment.
- Received **Team Award** for developing an Internal Poker Planning Tool, enhancing project estimations and cost savings.

Education

Bachelor of Engineering, Computer Science
Chitkara University, India

05/2020