

Anand Mohan Singh

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Skills

Languages: Java, Python, TypeScript, JavaScript, Swift, SQL

Backend, APIs: Spring Boot, FastAPI, Node.js, Express, React, Next.js, SwiftUI, OAuth2, OIDC, SAML, JWT

AI, ML: RAG, LangChain, Transformers, Vector Search (Pinecone, Azure AI Search), Azure OpenAI

Data, Messaging: PostgreSQL, MySQL, MongoDB, Redis, Oracle DB, Kafka, Firestore

Cloud, Infra, Observability: AWS (S3, EC2, IAM, Lambda), Azure (Entra ID, Blob Storage), GCP, Kubernetes (EKS, AKS, GKE), Docker, Terraform, Helm, Jenkins, GitHub Actions, Backstage, Prometheus, Grafana

Experience

Software Engineer II, Microsoft – Redmond, WA

July 2026 – Present

- Build and optimize AI-powered, agentic experiences within core Microsoft 365 productivity services used by millions daily
- Operate at the intersection of large-scale distributed systems and applied AI, improving the performance, reliability, and intelligence of productivity features

Software Engineer (Co-op), Kyndryl – New York

April 2025 – Dec 2025

- Designed a RAG stock recommendation service in FastAPI with LangChain and Pinecone serving 500k+ monthly queries; async retrieval and Redis (95% hit rate) held sub-100ms p99 on cached queries, surfaced via a React analyst dashboard
- Refactored the Java API gateway fronting REST and Kafka traffic across 5 microservices, adding Resilience4j circuit breakers, timeouts, and query tuning to drop p99 latency 850ms to 280ms and cut timeout errors 85%
- Rolled out JWT-based OIDC with Spring Security across 8 Java services securing 1M+ monthly API requests, designing token-validation filters and a staged dual-auth cutover with zero downtime for legacy clients
- Built an internal developer platform on Backstage with Node.js and Java APIs and GitHub-webhook automation, setting the service-scaffolding and RBAC standard adopted by 30+ engineers across the org
- Automated multi-cloud deploys for 8 microservices across EKS, AKS, and GKE with Terraform, Helm, and CI and CD pipelines, cutting environment spin-up from days to under an hour

Software Engineer, Oracle – Bengaluru, India

Sept 2022 – June 2024

- Owned technical delivery for CX Sales (50k+ customers) alongside an 8-engineer offshore team, building Next.js pages and Java REST APIs and driving SSR, caching, and payload work to cut page load 60% and lift release cadence 3x
- Shipped 3 NLP support bots in Python with Transformers and LangChain handling 100k+ monthly queries at 85% intent accuracy, owning intent routing, KB retrieval, and human handoff to cut first-response time from hours to minutes on common intents
- Architected enterprise SSO with OAuth2, OIDC, and SAML across 4 applications via custom Java middleware, automating user provisioning for 5k+ employees
- Mentored 5 new hires as code-review shadows on the CX Sales codebase, ramping them on Java REST APIs and Next.js through weekly review sessions and pair-programming on production tickets
- Migrated 10 Java ETL services onto Kubernetes with Helm manifests and Jenkins blue-green pipelines, processing 500GB+ daily at 99.9% reliability and lifting deploy cadence from weekly to daily

Associate Software Engineer, Oracle – Bengaluru, India

Aug 2021 – Aug 2022

- Implemented a Java migration framework with JDBC, REST APIs, and ETL transformations to move 250k+ records from on-premises to cloud, adding reconciliation checks and incremental cutovers to validate data integrity
- Built 5 REST and SOAP connectors linking Salesforce, SAP, and internal systems with idempotency and retry logic, processing 50k+ daily transactions at p95 under 100ms and cutting manual data entry 75%

Education

Master of Science in Computer Science, Northeastern University; GPA: 3.79

May 2026

Bachelor of Engineering in Computer Science, Visvesvaraya Technological University

July 2021

Projects

- **SceneSnap** (github.com/anandms101/SceneSnap): Shipped an iOS social app on a 3-engineer team in SwiftUI with MVVM and Combine over Firestore, with offline-first sync on reconnect and Firebase Storage backing scene comparisons and engagement-ranked leaderboards
- **Campus Cloud Print Queue** (github.com/anandms101/Campus-Cloud-Print-Queue): Built a distributed print-job system on AWS (Go Gin on ECS Fargate, Python SQS workers, DynamoDB, S3) via Terraform; circuit breakers and compensating transactions held p99 under 470ms at 25 req/s under 50-user Locust load (0% failures)