

Akash Moses Guttedar

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Senior Software Engineer (SDE II) with 4+ years building scalable distributed systems, secure microservices, and AI-integrated platforms. Deep experience in access governance, entitlement enforcement, IAM platforms, ETL pipelines, and containerized deployments. Strong foundation in system design, observability, and production-ready delivery.

Skills

Languages: Java, Python, C++, SQL, JavaScript, TypeScript, Shell Scripting

Frameworks: Spring (Boot, MVC, Data JPA, Security, Batch), FastAPI, Microservices, REST APIs, ReactJS, Kafka

Cloud & DevOps: AWS, Docker, Kubernetes, Jenkins, CI/CD, Cloud Foundry, Liquibase, Apache Tomcat

Databases: Oracle, PostgreSQL, MySQL, Amazon Aurora, DB2, Sybase, ADLDS, Query Optimization, Schema Design

IAM & Security: OAuth2.0, OIDC, SAML, SSO, RBAC, ADFS, PingFederate, Transmit Security, CyberArk, KMS

AI & LLM: AI assisted development, LLM APIs (Claude, Codex, HuggingFace), Prompt Engineering, GitHub Copilot

Observability & Testing: Splunk, AppDynamics, Apica, JUnit, Mockito, Snyk, SonarQube, Git, Jira, Bitbucket

Experience

JP Morgan Chase & Co., India

Software Engineer II

Jan 2023 – Jul 2024

Award: *Silent Runner Outstanding Contributor Award*

- Designed a *multi-threaded Data Migration ETL pipeline* (Spring Boot) with **pagination, batching, and encryption matching** to migrate *~100K authentication records* (Sybase/DB2 → AWS) at *95% efficiency in ~10 mins*; ensured secure credential transfer with aligned password hashing for seamless post-migration access.
- Engineered globally distributed **Access Control & Federation Microservices** (Spring Boot, LDAP, ADLDS) powering **entitlement enforcement and access governance** across multi-region, multi-datacenter infrastructure; supported *~10K concurrent users* at *99% availability*, reducing production failures by *70%*.
- Containerized a **One-Stop Onboarding Portal** (Spring Boot + React) via *Docker, Kubernetes, Jenkins* across multiple regions; reduced manual onboarding by *90%* with monitoring via Apica, AppDynamics, and Splunk.
- Architected **Oracle DB layer** with **schema design, query tuning, and indexing**; implemented **Liquibase-driven deployments** and **Blue-Green routing** for zero-downtime releases via ServiceNow Change Management.

Software Engineer I

Aug 2020 – Dec 2022

Award: *Extra Mile Team Award*

- Built enterprise **Visualization Dashboards** (QlikSense/QlikView + Jira APIs) for *~10K users*; slashed load times **from ~60s to milliseconds** via caching, pre-fetch, background loading, WebSockets, and JVM tuning.
- Implemented **Privilege Management & Policy Enforcement APIs** (Spring Security, PingFederate, Transmit Security) following SCIM standards with **RBAC filters, entitlement checks, and DAO-layer credential services** for OIDC/SAML, OTP, and secure ADLDS storage.
- **Modernized legacy authentication to Kerberos**; designed **access governance workflows** with CyberArk/KMS secret management, functional account separation, least-privilege RBAC, and audit trail across all access changes.
- Performed **L3 root-cause analysis** across OIDC/SAML flows via Splunk; remediated **500+ vulnerabilities** (Snyk, SonarQube), executed **Java 8→17 and Spring Boot upgrades**, and drove on-prem to AWS migration.

Software Engineer Intern

Jan 2020 – Jul 2020

- Developed Python-based data migration POC; built **unit/integration test suite** (JUnit, Mockito) achieving **90% code coverage**, improving debugging efficiency and reconciliation accuracy.

Projects

Hire Sight – Visual Analytics for Tech Job Search | *React 18, D3.js, FastAPI, Pandas, Hugging Face LLM API* Jan – May 2026

- Built a full-stack deployed analytics platform modeling the tech hiring funnel (Applications → Callbacks → Interviews → Offers) with **D3 Sankey diagrams, role heatmaps, and trend charts**; deployed on Vercel + Render.
- Engineered an **AI-powered recommendation engine**: parses uploaded resume PDFs, benchmarks pipeline metrics, and delivers **LLM-generated guidance** (Mistral-7B via Hugging Face API) on role fit and application strategy.

News Recommendation Atlas – Cold-Start Signal Study | *Python, scikit-learn, NetworkX, mlxtend, LDA* Jan – May 2026

- Ran a controlled experiment on **Microsoft MIND-small** (50K users, 156K impressions) evaluating content + topic signals vs. behavioral signals for *cold-start users* (32.8% of users with no behavioral history).
- Built a multi-signal pipeline – **FP-Growth co-occurrence, co-click graph mining, TF-IDF + LDA** – under a logistic regression ranker; content signals won **MRR by +13.8% and NDCG@10 by +11.5%** on cold-start users.

Education

Texas A&M University, College Station, Texas

Aug 2024 – May 2026

Master of Science in Computer Engineering

(GPA – 3.8/4)

Jawaharlal Nehru Technological University, Hyderabad, India

Jul 2016 – Sept 2020

Bachelor of Technology in Electronics and Communication Engineering

(GPA – 9.8/10)

Award: *Gold Medal for highest departmental CGPA*