

EDUCATION

- **Zakir Husain College of Engineering & Technology, AMU** Aligarh, UP
Bachelor of Computer Engineering; GPA: 9.12 Aug. 2016 – May. 2020

EXPERIENCE

- **Cisco** Bengaluru, KA
Software Engineer Oct. 2024 - Present
 - **Global Search:** Built a tenant-scale global search system for Cisco Secure Access, indexing 30+ security configuration object types across 50+ searchable fields and millions of cross-object relationships. Enabled nested and “where-used” lookups to help customers quickly trace related objects, policies, and dependencies, targeting 60% lower policy-troubleshooting MTTR and 40% fewer audit misconfigurations.
 - **RCA platform:** Contributed to an internal root-cause analysis platform by building the deployment pipeline, designing the anomaly schema and data model, defining RCA service APIs, and shipping multiple MCP servers, including a Splunk observability server for metric queries and aggregations now used across teams.
 - **Log Ingestion:** Designed and led implementation of a distributed firewall log ingestion and enrichment pipeline shipping 10K events/sec with no upstream Kinesis lag, delivering near-real-time firewall log visibility to Hybrid ZTNA customers.
- **Deepfactor (acquired by Cisco)** Bengaluru, KA
Senior Software Engineer Feb. 2023 - Oct. 2024
 - **IAM for SaaS:** Designed and built the IAM layer from scratch for the Deepfactor SaaS beta — multi-tenant authn/authz with generic SSO (SAML, OIDC) supporting both on-prem and SaaS deployments.
 - **Rate Limiting:** Designed per-tenant rate limiting at the Kubernetes ingress layer using Istio, keyed on custom usage metrics such as data ingested and containers observed, preventing noisy-neighbor impact across customers on shared infrastructure.
 - **Teams:** Built the teams feature for multi-tenant collaboration and role-scoped access.
- **Amazon** Bengaluru, KA
Software Development Engineer July 2021 - Jan. 2023
 - **Platform Migration:** Led an organization-wide platform migration automation for 50+ teams that reduced a multi-day manual effort into a near-instant, minutes-long workflow.
 - **AIWorkbench:** Contributed to a no-code platform for composing custom, chained workflows across AWS and internal services, including approval workflows that pause execution to validate intermediate ML inference results.
 - **Recommendation services:** Built a one-click campaign launcher for marketing managers during large-scale marketplace events, using ML inference outputs to recommend campaign configurations.
- **Optum, UnitedHealth Group** Remote
Software Engineer Aug. 2020 – June 2021
 - **Data Validation Framework:** Built a service to validate Kafka streams against source databases and generate data quality reports.
 - **MVPs and Observability:** Created MVPs for verifiable credentials and migrated a legacy codebase to Go with full observability using Prometheus, Grafana, and Jaeger.
- **Mindship** Bengaluru, KA
Software Engineer Intern June. 2019 – Sep. 2019
 - **Reusable Backend Frameworks:** Built reusable backend services, including a GraphQL-powered web chat service and a mailer/messaging service integrating Twilio and SendGrid APIs for Mindship customers.

PROJECTS

- **Distributed WAL:** A disk-backed distributed write-ahead log with Raft-based replication and consensus
- **Lox Interpreter:** Interpreter for the Lox programming language written in Go
- **Virtual Stylus:** A hand-gesture-driven HCI interface built with object detection and classification techniques

PROGRAMMING SKILLS

- **Languages:** Go, Python, Java, C/C++
- **Technologies:** Kubernetes, AWS, Kafka, MCP, RAGs, Vector Databases, Agentic AI, Langchain, Postgres