

Adil Shaik

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EDUCATION

M.S. in Computer & Information Science & Engineering

August 2019 - December 2020

University of Florida

B.Tech in Computer Science and Engineering

August 2015 - July 2019

JNTU

SKILLS

Languages: Rust | Java | Python | TypeScript | C/C++ | Bash

Cluster Orchestration: Kubernetes (K8s APIs) | Control Planes (CRDs) | AWS CDK | Docker | EKS

Systems & Architecture: Distributed Systems | Multi-Tenant Isolation | High-Throughput Storage | Networking | Observability

EXPERIENCE

Amazon

Nov 2022 - Present

Software Development Engineer II (SDE II)

Seattle, WA

- Architected and scaled a specialized Kubernetes platform to manage a next-generation internal NoSQL database for retail OLTP workloads, orchestrating cluster infrastructure capable of maintaining cross-region consistency via a Powerset Paxos consensus framework.
- Designed and implemented a declarative cloud-native control plane utilizing Kubernetes Custom Resource Definitions (CRDs) to abstract complex container and infrastructure topologies into isolated, multi-tenant resources.
- Engineered an enterprise-grade AWS CDK platform framework using TypeScript, integrated with custom CloudFormation resources to enable internal teams to seamlessly provision multi-tenant, stateful infrastructure entirely via zero-touch code.
- Led a large-scale technical migration campaign to transition 600+ enterprise services and applications onto a modern infrastructure-as-code framework, optimizing onboarding automation and mitigating architectural deployment risks.
- Engineered multi-region network infrastructure, high-throughput topologies, and secure pod-to-pod isolation policies for the unified core database platform.
- Engineered a high-performance, multi-zone DNS Gateway in Rust for EKS clusters, achieving a 10x cross-zone DNS performance improvement per pod; diagnosed and resolved a CoreDNS lookup inefficiency and mitigated gRPC load-balancing bottlenecks via a lightweight proxy layer.
- Led platform observability, reliability, and deployment workflows, introducing advanced system telemetry (canaries, end-to-end integration testing, Grafana dashboards) that significantly reduced Mean Time to Resolution (MTTR).

Amazon

Feb 2021 - Nov 2022

Software Engineer I (SDE I)

Seattle, WA

- Engineered core infrastructure components for a highly scalable, low-latency NoSQL distributed database platform handling 80M+ requests per second, optimizing low-level Java and Python backend services for strict resource efficiency, high reliability, and system-level fault tolerance.
- Owned production operations and engineered automated debugging/remediation workflows in large-scale cluster environments, introducing self-healing controller logic to eliminate operational toil and minimize core system downtime.

Amazon

July 2020 - August 2020

SDE Intern

Seattle, WA

- Developed automated distributed applications utilizing Java, Python scripts, and AWS cloud technologies to manage a scalable compute and storage fleet platform.
- Decreased operational load on platform infrastructure teams by automating an essential fleet optimization feature, accelerating background data validation and health-checking workflows.

SkillTern Edu Tech

January 2018 - August 2019

Founder / Tech Lead

India

- Founded and led full-stack development of the core SkillTern.in education platform, managing backend architecture, system scalability, and infrastructure delivery.
- Trained and mentored over 200 students in software development and programming courses, establishing rigorous technical curriculums and engineering code review standards.

HONORS AND RECOGNITION

- Google India Scholarship Holder
- Selected among the Top 83 Undergraduates from India to attend Summer School at IISc, Bangalore