

Sachin Devangan

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SUMMARY

Senior Software Engineer with 4.5 years of experience designing and operating cloud infrastructure for distributed, production-critical systems. Strong background in AWS compute, storage, networking, Linux systems, containerized workloads, and infrastructure as code. Experienced in building reliable cloud platforms that connect remote, field-deployed systems with centralized services under real-world operational constraints.

WORK EXPERIENCE

Senior Software Engineer, Cloud & Platform, LPL Financial

Sep 2024 – Present | Chicago, IL

- Architected and owned AWS cloud infrastructure for distributed, event-driven systems, supporting high availability, traceability, and fault tolerance across production environments.
- Designed secure VPC architectures with private networking, service isolation, and least-privilege IAM to safely connect multiple internal services and external producers.
- Led containerized deployments on Kubernetes (EKS), implementing autoscaling, rolling updates, and health checks to support continuous delivery without service disruption.
- Built end-to-end observability with CloudWatch, Prometheus, and Grafana to monitor system health, latency, and failures.
- Performed deep production debugging across Linux hosts, container runtimes, and network paths, identifying bottlenecks and reducing mean time to recovery by over 30 percent.

Software Engineer, Cloud & Backend, Tata Consultancy Services

Apr 2024 – Sep 2024 | Jersey City, NJ

- Built and operated cloud-native backend services on AWS supporting large-scale data ingestion and asynchronous processing.
- Implemented CI/CD pipelines for containerized services using Jenkins and GitHub Actions to enable repeatable deployments.
- Optimized PostgreSQL schema design, indexing, and connection handling for high-concurrency workloads.
- Developed secure REST APIs and background workers using Python and Java with Kafka-based event communication.
- Debugged production issues across service performance, Linux resource usage, and networking behavior.

Software Developer, Cognizant

Mar 2020 – Aug 2022 | Pune, India

- Engineered AWS-based ingestion and processing systems handling millions of events per day for large-scale production workloads.
- Built backend services using PostgreSQL and Redis to support low-latency, high-throughput data access patterns.
- Diagnosed production issues on Linux systems involving memory usage, process behavior, and network connectivity.
- Supported deployment, monitoring, and maintenance of backend services across multiple production environments.

TEACHING EXPERIENCE

Graduate Teaching Assistant, Stevens Institute of Technology

May 2023 – May 2024 | Hoboken, NJ

- Mentored graduate students in cloud computing, Linux fundamentals, backend architecture, and distributed systems concepts.
- Built internal automation tools to streamline evaluation workflows, improving reliability and reducing manual effort at scale.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, EKS, ECS, S3, RDS, DynamoDB, VPC, IAM, CloudWatch)

Containers & Orchestration: Docker, Kubernetes (EKS), Helm

Infrastructure as Code: Terraform, Ansible

Programming: Python, Java, Bash

Datastores: PostgreSQL, Redis, DynamoDB

Distributed Systems: Kafka, asynchronous processing, event-driven architecture

Observability: Logging, monitoring, metrics, alerting, Prometheus, Grafana

Security & Identity: IAM, OAuth2, TLS, secrets management

Systems & Networking: Linux administration, TCP/IP fundamentals, performance debugging

DevOps: CI/CD pipelines, Git, automated testing and deployments

PROJECTS

SchedEz | Python, Docker, AWS, MongoDB

- Designed backend services and cloud deployment architecture for a multi-user scheduling platform.
- Containerized services and deployed consistent environments across development and production.
- Implemented logging and monitoring to support reliable operation and faster issue diagnosis.

EDUCATION

Stevens Institute of Technology

New Jersey, USA

Master of Science in Computer Science

Sep 2022 – May 2024

Savitribai Phule Pune University

Pune, India

Bachelor of Engineering in Information Technology

Aug 2016 – Apr 2020