

Akarsh Dang

Software Development Engineer II

Software Development Engineer with 7+ years of experience across cloud infrastructure, big data, and backend systems. Currently driving innovation in Amazon Redshift's Control Plane, with contributions to high-availability (Multi-AZ), serverless, and infrastructure-as-code features adopted across 15+ AWS regions. Skilled in large-scale distributed systems, API design, and customer-focused feature rollouts. Strong track record of reducing redundancy, improving SLAs, and mentoring engineers. Previous experience includes research in knowledge graphs, cloud security engineering, and mobile application development.

Work Experience

Amazon Web Services (AWS), East Palo Alto, CA

Software Development Engineer II (Dec 2021 – Present)

Software Development Engineer I (Jun 2020 – Dec 2021)

Team: Redshift Control Plane

- Contributed to the design and development of Redshift Multi-AZ, enabling clusters to span Availability Zones with seamless failover; independently rolled out to 15+ regions, improving SLA from 99.9% → 99.99%.
- Drove Multi-AZ feature adoption, resulting in 3,900+ new clusters since launch; built and maintained QuickSight dashboards to share operational and usage insights with leadership weekly.
- Primary owner of AWS CloudFormation support for Redshift Control Plane, enabling infrastructure-as-code deployment for Multi-AZ and five key Redshift Serverless features.
- Migrated 168+ Redshift customer event notifications to a unified API layer in four phased rollouts, successfully eliminating code redundancy across services.
- Mentored a couple of interns, providing hands-on technical guidance that directly contributed to their successful conversion into full-time engineers on the team.

Information Sciences Institute, Marina del Rey, CA

Graduate Research Assistant – Center on Knowledge Graphs (Aug 2019 – Mar 2020)

- Built graph-based situational clustering system for crisis response using Twitter data streams.

Sumo Logic, Redwood City, CA

Backend Software Engineer Intern – Cloud SIEM (May 2019 – Aug 2019)

- Implemented event-enriching lookup features to boost threat context for security analysts.

Samsung Research Institute, India

Software Engineer – Multimedia Applications (Jul 2016 – May 2018)

- Developed features and maintained Gallery and Video Player applications for Samsung devices.
- Collaborated on OS upgrade bring-ups with global teams.

Technical Skills

- Languages:** Python, Java, Scala, C++, TypeScript, Bash, SQL
- Databases & Analytics:** MySQL, PostgreSQL
- AWS Services:** Redshift, DynamoDB, QuickSight, CloudFormation, S3, EC2, VPC, IAM, KMS, CloudWatch, Lambda, Step Functions
- Tools & Systems:** Git, REST APIs, Docker, Distributed Systems, CI/CD

Contact

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Educational Background

Master of Science in Computer Science

University of Southern California (August 2018 – May 2020)

- GPA: 3.40/4.0

Bachelor of Technology in Computer Science

National Institute of Technology, Jamshedpur (July 2012 – May 2016)

- GPA: 9.19/10.0

Achievements

- Mentored 250+ new hires at Samsung as part of onboarding.
- Ranked 1st academically in all semesters at NIT Jamshedpur (CSE).
- Gold Medalist in National Maths Olympiad 2010.