

VIDISHA GUPTA

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EXPERIENCE

Amazon Web Services (AWS)

March 2024 – Present

Software Development Engineer I

Seattle, WA

- S3 Glacier Data Retrieval: build and maintain systems that restore exabytes of data annually for millions of customers from proprietary storage systems to S3 buckets.
- Designed and implemented end-to-end solution for a new data integrity feature, including internal messaging, database interactions, S3 metadata validation, metric reporting, and logging.
- Investigated an issue with S3 firewall allowlist propagation that was impacting restore performance. Automated host validation via Bash to ensure only ready hosts accept traffic, improving Glacier expedited retrieval reliability, reducing socket-timeout failures by 80%, and cutting deployment time from 28 to 7 days.
- Collaborated with upstream teams to migrate from API-based to asynchronous messaging model, improving scalability and fault tolerance.
- Built comprehensive operational tooling with job retry mechanisms, S3 metadata updates, CloudWatch monitoring, and led internal readiness review to identify and address 10+ gaps in our launch readiness.
- Owned operational excellence for multiple critical systems, successfully managing up to 70 weekly high-severity incidents, including petabyte-scale restore operations, service outages, and customer escalations.
- Mentored an intern, helping guide project design and implementation. Regularly mentor other team members by defining tasks, providing feedback in code reviews, and hosting learning sessions.
- Accelerated regional expansion by launching services in 5 new regions in 2024, including isolated AWS partitions. Identified and resolved automation gaps, reducing deployment time by 5-7 days per region.

Paul G. Allen School of Computer Science & Engineering

September 2023 – March 2024

Teaching Assistant: Database Systems

Seattle, WA

- Taught weekly review section, hosted office hours, and graded assignments for 250+ students. Topics covered include SQL basics, database design, transactions and locking, query optimization, and SQL++.

Amazon Web Services (AWS)

June 2023 – September 2023

Software Development Engineer Intern

Seattle, WA

- Created a synthetic data generator to generate mock testing data, processing 60000+ files in minutes via Pandas.
- Parallelized workloads across 1000s of Lambda functions using Distributed Map, slashing processing time by 80%.
- Programmatically defined 20+ resources via AWS CDK, enhancing scalability and automating provisioning.

LEADERSHIP & INVOLVEMENT

COM²: Computing Community (Prev. UW ACM Chapter)

Chair (2022), Events Coordinator (2021), Officer (2020)

- Led the largest student organization in the Allen School (over 1300 members) to run research nights, social events, and mentorship program. Spearheaded planning and execution of quarterly social events for 550+ attendees.

Team Events Organizer

- Organize monthly events for my team at Amazon (learning sessions, volunteering, happy hours, hikes, etc).

Allen School Diversity, Equity, and Inclusion Committee

- Furthered DEI efforts at the Allen School by leading the department's first Mental Health Awareness Campaign, promoting K-12 outreach, and conducting teaching professor interviews.

EDUCATION

University of Washington, Seattle

Bachelor of Science in Computer Science

GPA: 3.89/4.0

- **Gary A. Kildall Endowed Scholarship:** Awarded to 2 CSE undergraduates for outstanding academic merit
- **Undergraduate Service Award:** Awarded for exceptional service to the school

SKILLS

Languages: Java, Python

Technologies: Guice, Apache Spark, AWS, SQL, Linux, Git, Pandas