

# VIDISHA GUPTA

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## EDUCATION

### University of Washington, Seattle

September 2020 - March 2024

Bachelor of Science in Computer Science, Minors in Mathematics and Nutrition

GPA: 3.89/4.0

- **Selected Courses:** Data Structures, Algorithms, Distributed Systems, Databases, Networks, Machine Learning
- **Gary A. Kildall Endowed Scholarship:** Awarded to 2 outstanding CSE undergraduates based on academic merit out of 400+ applicants

## EXPERIENCE

### Amazon Web Services (AWS)

March 2024 – Present

Software Development Engineer I

Seattle, WA

- SDE in S3 (Simple Storage Service) organization.

### Paul G. Allen School of Computer Science & Engineering

September 2023 – March 2024

Teaching Assistant: Database Systems | *Azure SQL Database, SQLite, AsterixDB*

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 | *Pandas, Python, TypeScript, DynamoDB, Lambda*

Seattle, WA

- Engineered a synthetic data generator that protects customer data, processing 60000+ files in minutes via Pandas.
- Parallelized workloads across 1000s of Lambda functions using Distributed Map, slashing processing time by 80%.
- Employed DynamoDB as temporary data storage, implementing a Time-to-Live strategy to reduce stored data volume and increase resource management efficiency.
- Programmatically defined 20+ resources via AWS CDK, enhancing scalability and automating provisioning.

## LEADERSHIP & INVOLVEMENT

### COM<sup>2</sup>: Computing Community (Prev. UW ACM Chapter)

October 2020 – June 2023

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 for hundreds of attendees.
- Led a team of 21 and engaged with school leadership to improve diversity, equity, and access via student-led advocacy, events, and cross-club collaborations.
- Spearheaded planning and execution of quarterly Allen School social events for 550+ students, faculty, and staff.

### Allen School Diversity, Equity, and Inclusion Committee

November 2022 – March 2024

- 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.

## PROJECTS

### COVID-19 Vaccine Scheduler | *Java, SQL, Azure, Java JDBC*

August 2022

- Developed an interactive portal enabling caregivers and patients to manage appointments, upload availability, and modify vaccine supply status.
- Utilized Azure SQL database to store data, including vaccine details, scheduling information, and secure logins.

### Donation Buddy: SWEHacks Winner | *Google Maps Javascript APIs, React, Bootstrap*

April 2021

- Created donation mapping page where users can find relevant nearby donation sites on a custom map built atop Google Maps Javascript API, Google Place API, and Geocoding API.
- Wrote algorithm for API calls and filtering/selection logic and built frontend using React and Bootstrap.

## SKILLS

**Languages:** Java, Python, C++, C, JavaScript/TypeScript

**Technologies:** SQL, Linux, Git, Pandas, Pyarrow, React, Azure, AWS: Lambda, S3, DynamoDB, CDK