

VIDISHA GUPTA

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EDUCATION

University of Washington, Seattle

September 2020 – June 2024 (expected)

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

GPA: 3.86/4.0

- **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

Paul G. Allen School of Computer Science & Engineering

September 2023 – Present

Teaching Assistant

Seattle, WA

- Incoming Fall 2023 TA for CSE 414: Database Systems

Amazon Web Services (AWS)

June 2023 – September 2023

Software Development Engineer Intern

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.

TEDxUofW

December 2021 – May 2022

Web Developer

Seattle, WA

- Created Vue.js and TypeScript-based “Speaker” page for a local TEDx conference drawing over 300 attendees and 1200 YouTube views.

LEADERSHIP & INVOLVEMENT

COM²: Computing Community (Prev. UW ACM Chapter)

November 2020 – June 2023

Chair

May 2022 – June 2023

- 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.

Social Events Coordinator

May 2021 – May 2022

- Spearheaded planning and execution of quarterly Allen School social events for 550+ students, faculty, and staff.

Associate Officer

November 2020 – May 2021

- Led and organized social, academic, and career events to build community within the Allen School.

Allen School Diversity, Equity, and Inclusion Committee

November 2022 – June 2023

- 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, AWS Lambda, S3, DynamoDB, AWS Cloud Development Kit (CDK)