

# Willis Wang

✉ [williswang@berkeley.edu](mailto:williswang@berkeley.edu) ☎ (408) 966-2909 🔗 [linkedin.com/in/willislwang](https://www.linkedin.com/in/willislwang) 📄 [github.com/willislwang](https://github.com/willislwang)

## Experience

### SWE Intern Amazon

May 2021 – Aug 2021 Seattle, WA

- Designed and implemented a favorites system for internal AWS account management.
- Deployed application to 100k+ developer accounts within Amazon's Consumer Division.

### Software Engineer Intern 8th Wall

May 2020 – Aug 2020 Palo Alto, CA

- Architected storage, backup, retention, and restoration system for 10k+ customer repositories.
- Automated database migrations, rollback, and CDN updates across all internal engineering infrastructure.

### Course Staff – Operating Systems UC Berkeley

Jan 2021 – Present Berkeley, CA

- Hosted social events and office hours for class of 400.
- Created and revised rubric for exams, homeworks, and projects, including PintOS instructional OS.
- Taught concepts including concurrency, virtual memory, caching, filesystems, and memory protection.

## Research

### Dataspread [dataspread.github.io](https://dataspread.github.io)

Jan 2021 – Present Java

- A storage engine integrating spreadsheets as a front-end interface and PostgreSQL as a back-end database.
- Researching and developing scheduler for formula-related changes, prioritizing visual updates for cells within view while maintaining correctness.

### Delta Lake Caching [github.com/willislwang/delta\\_caching](https://github.com/willislwang/delta_caching)

Oct 2020 – Dec 2020 Scala

- Research project for CS 262A to achieve fast single-row access time for Delta Lake
- Worked with Databricks engineers on a write-back caching layer using RocksDB.

### COVID-19 Contact Tracing

Aug 2020 – Jan 2021 Python

- Modeled COVID-19 contact tracing using magnetometer sensors in smartphones to preserve user privacy.

## Education

### University of California, Berkeley Computer Science BA

Aug 2018 – May 2022 3.72 GPA

**Coursework:** Graduate Computer Systems, Operating Systems, Database Systems, Networking, Computer Architecture (CPU/hardware design, memory systems, multi-level parallelism), Computer Security, Data Structures, Algorithms

## Skills

**Languages:** C/C++, Python, Java, Scala, x86 Assembly, Javascript, HTML/CSS, SQL

**Domains:** Databases, Distributed Systems, Kernel Development, Full-Stack/Backend Development

**Tools:** AWS (Lambda, S3, DynamoDB, SQS, Cloudformation), PostgreSQL, MongoDB, Git, GDB, Linux

**Libraries/Frameworks:** Node, Express, React, Redux-Saga