

Willis Wang

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Experience

SWE Intern Amazon

May 2021 – Aug 2021 Seattle, WA

- Drove the end-to-end product/technical design, implementation, and release of a favorites system that extended 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.

Undergrad Researcher UC Berkeley

Oct 2018 – Jan 2020 Berkeley, CA

- Modeled COVID-19 contact tracing using magnetometer sensors in smartphones to preserve user privacy.
- Implemented a companion Android app for end users.

Projects

Dataspread <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 https://github.com/williswang/delta_caching

Oct 2020 – Dec 2020 Scala

- Worked with Databricks engineers on a write-back caching layer using RocksDB for Delta Lake.

Pintos

Feb 2020 – May 2020 C

- An x86 OS with BSD Fast File System, dynamic sector allocation, file growth, kernel syscalls, processes, synchronization.

Education

University of California, Berkeley Computer Science BA

Aug 2018 – May 2022 3.72 GPA

Teaching: Course Staff for CS162: Operating Systems

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