Willis Wang

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Experience

Amazon **Software Engineer Intern**
May 2021 - Aug 2021 Seattle, WA
- Lead end-to-end design and implementation of favorites system allowing users of Conduit to easily access tagged accounts
- Deployed application to 100k+ end users within Amazon's Consumer Division.

8th Wall **Software Engineer Intern**
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.
- Used AWS services: Lambda, S3, API Gateway, DynamoDB, Cloudwatch, Cloudfront, SNS, Elastic Beanstalk

UC Berkeley **CS 162 Operating Systems Course Staff**
Jan 2021 - Present Berkeley, CA
- Hosted social events and office hours for class of 400.
- Created rubric for exams, homeworks, and projects involving PintOS x86 OS.
- Taught concepts including concurrency, virtual memory, caching, filesystems, and memory protection.

Education

University of California, Berkeley **Computer Science BA**
Aug 2018 - May 2022 (May 2023 M.S.) 3.72/4 GPA
Intended 5th Year EECS M.S.
Coursework: Graduate Computer Systems, Operating Systems, Database Systems, Networking, Computer Architecture (CPU/hardware design, memory systems, multi-level parallelism), Computer Security, Data Structures, Algorithms

Research

Dataspread **dataspread.github.io**
Jan 2021 - Present Java
- A storage engine integrating spreadsheets as a front-end interface and PosgreSQL as a back-end database.
- Researching and developing scheduler for formula-related changes, prioritizing visual updates for cells within view while maintaining consistency.

Delta Lake Caching **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.

Skills

Languages: C/C++, Python, Java, Scala, RISC-V/x86 Assembly, Javascript, OCaml, 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