Jennifer Lai

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EXPERIENCE

✦ Meta

❖ Senior Software Engineer, ResourceBroker Team Jun 2021 – Present

- Key engineer in 2+ year effort across 5+ teams, driving low-level design and implementing distributed, highly available unified control plane that orchestrates host configuration changes and capacity allocations across 1M+ machines daily for Meta's internal cluster management system.
- Lead engineer in designing and implementing performance optimizations and load test framework, used for A/B testing on the efficiency gains from the changes, to address scalability bottlenecks resulting in 65% latency improvement and 4x increase in throughput for Meta's cluster management driving engine.
- Led alignment and design across 5+ teams to provide recovery mechanisms to prevent data loss on Meta's stateful storage services, unlocking service onboarding onto shared pools to increase efficient resource allocation and decrease cost of maintenance.
- Led design, implementation, and execution across 5+ teams to automatically unblock rack-moves on unhealthy machines to accelerate hardware refresh, resulting in company-wide infra cost reduction of ~$300M per year and saving 130 engineering hours of operational toil per half.
- **Technologies:** C++, Python, SQL

❖ Software Engineering Intern, Analytics Platform Team Sep 2020 – Dec 2020

- Designed and implemented hypercube structure to unify data across different platforms.
- Created dashboard to visualize and track data exposed per query.
- **Technologies:** C++, Python, SQL

✦ Google

❖ Software Engineering Intern, Spanner Jun 2020 – Sep 2020

- Reduced CPU cost of a class of Spanner Paxos writes by ~15-20% by batching RPCs together.
- Enhanced Spanner LSM compaction verification by examining all versions of data.
- **Technologies:** C++

❖ Software Engineering Intern, Funding Choices Team Jun 2019 - Sep 2019

- Implemented and tested full-stack feature that provides bulk management tools for a Google Ads publisher product.
- **Technologies:** Java, JavaScript, Closure/CSS, Spanner

EDUCATION

University of California, Santa Barbara Sep 2017 - Mar 2021

B.S. Computer Science, GPA: 3.94

- UCSB Regents & Chancellor's Scholars Association & College of Engineering Honors

SKILLS

- ✦ **Languages**: C++, Python, SQL, Javascript Nodes.JS+React
- ✦ **Technologies:** Git, Docker, Kubernetes, AWS
- ✦ **Methodologies:** Scalable System Design, Test-Driven Development, Waterfall Project Management

LEADERSHIP

✦ SB Hacks Organizing Team, Co-Director & Developer Feb 2018 – Mar 2020

- Raised $45,000+ in sponsorships and led 8-person team to organize 350-person UCSB annual hackathon.
- Created landing page, hacker dashboard, and additional user features for SB Hacks website.
- Created React app to optimize application review process and built additional internal team tools.
- **Technologies:** AWS, Cloudflare, JavaScript, Node.js, PostgreSQL, React, Redux, SASS, Sendgrid, Webpack