

Jennifer Lai

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EXPERIENCE

♦ **Meta**

- ❖ **Senior Software Engineer, ResourceBroker Team** Jun 2021 – Present
 - Helped design and implement 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.
 - Helped design and implement scalability improvements resulting in 65% latency improvement and 4x increase in throughput for Meta's cluster management driving engine.
 - Drove design, implementation, and execution across 5+ teams to accelerate hardware refresh, resulting in company-wide infra cost reduction of ~\$300M per year.
 - **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