MATTHEW LEE

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EDUCATION

University of California, Berkeley   **Expected May 2024**
BA Computer Science + BA Data Science, GPA 4.0
- **Coursework:** Introduction to Database Systems, Efficient Algorithms and Intractable Problems, Data Structures, Machine Structures, Probability and Random Processes, Discrete Mathematics and Probability Theory, Structure and Interpretation of Computer Programs, Principles & Techniques of Data Science
- **Skills:** React.js, Python, React Native, Node.js, Java, HTML/CSS, C/C++/C#, UI/UX Design, Human-Centered Design
- **Activities**: Cal Hacks, Accel Scholars, Fung Fellowship, CS 170 (Efficient Algorithms and Intractable Problems) Staff

WORK EXPERIENCE

Uber   **San Francisco, California**
Software Engineering Intern - Data Platform Engineering   May 2023 - Present
- Incoming for Summer 2023.

Figma   **San Francisco, California**
Software Engineering Intern - Monetization   Jan. 2023 - Apr. 2020
- **Engineered a Figma Professional plan 14-day trial experiment** to test the effectiveness of guided feature education on free-to-paid team conversion rate using **React.js, Ruby, and C++** as part of a **nine member full workflow**.
- Drove **dogfooding and pull request feedback** across trial entry and onboarding UI and state machine work.
- **Investigated and proactively instigated QA fixes** around branding in locked team states and sidebar upsells.
- Iterated upon **product design and engineering decisions** over trial experiences with **cross-functional stakeholders**.

Spatial   **San Francisco, California**
Software Engineering Intern   May. 2022 - Aug. 2022
- Built the **metaverse for culture and collaboration** with **React.js, React Native, Typescript, Go, and Unity.**
- Designed and engineered **mobile/web push notification system** with **Firebase Cloud Messenger and Customer.io** to power marketing techniques and improve user content discovery experiences and retention rates.
- Brainstormed designs, triaged user feedback, and implemented UI and functionality of **cinematic tour mode on mobile client app** that automatically **facilitates digital artwork and NFT exploration** within 3D spaces.

RESEARCH EXPERIENCE

Department of Electrical Engineering & Computer Sciences   **Berkeley, California**
HCI Researcher   Jan. 2023 - Present
- Exploring **case studies and insights from large language modal (LLM) assisted conversational interaction design** and the uniquely challenging issues that arise from the limited affordance of prompting with respect to OpenAI's GPT-3.

Haas School of Business   **Berkeley, California**
Operations Researcher   Jan. 2022 - Present
- Investigating **how customers respond to machine-generated advice** and **how recommendation systems can more effectively convey information and goals** when considering user behavior, under Prof. Park Sinchaisri.
- Creating and conducting **experiments simulating cross-country driving** with **Qualtrics and Javascript** with over 100 study participants to understand the effects of overconfidence and uncertainty on machine advice adherence**.**

PROJECTS

- **Jane Street Electronic Trading Challenge SF -** *Python*. **Electronic trading bot** for simulated markets that utilizes arbitrage strategies and bond trading to maximize profit. Placed top 16th in the final round.
- **Napa** - *Next.js, Socket.io, Express.js, Flask, MongoDB*. **Real-time multiplayer trading game** for quantitative finance education on bid-ask spreads. Implemented UI, authentication, user room management, and internal game logic.
- **Unify** - *React, Node.js, Firebase.* **Social platform for college applications** that connects high school students with college students to provide personalized insight on tuition finances, academic curriculums, and holistic experiences.

ADDITIONAL INFORMATION

- **Awards:** Upsilon Pi Epsilon, Regents' and Chancellor's Scholarship, Cal Alumni Association Leadership Award Scholarship, Dean's List Student, American Invitational Mathematics Exam 4x Qualifier, USA Computing Olympiad Silver
- **Interests**: Chess, Museums, Gym, Basketball, Reading, Maps, Cuisines
- **Languages**: English (Native), Chinese (Fluent), Spanish (Elementary)