ERIN TSAI

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EDUCATION

University of California, Berkeley
Aug. 2019 — May 2023

B.A. in Computer Science and Cognitive Science
GPA: 3.882/4.0
Courses: The Structure and Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability Theory, Foundations of Data Science, Web Design Decal, Human-Centered Design Decal
Organizations: Codeology, CS Kickstart, Association of Women Engineers, AFX Dance

EXPERIENCE

FairX | *Software Development Intern*
May — Aug. 2021

- Worked closely with clients to develop several new features for trading platform
- Added cookies, configured server to support multiuser interactivity and auto-logon
- Implemented streaming over WebSockets to display real-time market data updates
- Replaced an object pooling scheme with a custom garbage-free linear-probing HashMap in production, achieving a 20% speedup for market data aggregation

CS Kickstart | *Curriculum Developer*
July 2020 — Aug. 2021

- Curriculum developer for CS Kickstart, a week-long tech exposure program for freshmen women interested in computer science
- Created and taught introductory UI/UX design workshop in Figma
- Built demo games, app mockups, and websites to guide students in their learning

PROJECTS

Find Your Zen | *Swift, Xcode, Figma*
Feb. — May 2021

- Designed and developed user interface for a meditation and wellness iOS app, featuring mood tracking, meditation, goal-setting, and journaling

Thin Ice | *Java, JUnit, StdDraw*
Nov. 2020

- Designed and implemented Thin Ice, a tile-based world exploration game
- Uses seed to generate pseudorandom map of rooms and hallways
- Supports saving, loading, and interactive elements like shopping and teleportation

SKILLS

- Java, Python, HTML, CSS, JavaScript, React, Redux, Javalin
- Figma, Adobe Illustrator, Adobe XD, Xcode
- UI design and prototyping, human-centered design, vector art, music composition