Tom **Zheng**

SOFTWARE ENGINEER

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Education

University of California, Berkeley
Berkeley, CA

B.A. IN COMPUTER SCIENCE AND B.A IN ECONOMICS
Aug. 2019 - Dec. 2023

- CS61A: Structure and Interpretation of Computer Programs
- CS61B: Data Structures
- CS61C: Great Ideas of Computer Architecture
- CS70: Discrete Math and Probability
- CS170: Efficient Algorithms and Intractable Problems
- CS186: Introduction to Database Systems
- STAT 20: Introduction to Probability and Statistics
- ECON 140: Economic Statistics and Econometrics
- CS161: Computer Security
- CS162: Operating Systems and System Programming
- CS 168: Introduction to the Internet: Architecture and Protocols
- DATA 100: Principles and Techniques of Data Science
- EECS 16A: Designing Information Devices and Systems I
- EECS 16B: Designing Information Devices and Systems II
- ECON 100A, 100B: Microeconomics, Macroeconomics
- ECON C110: Game Theory in the Social Sciences

Work Experience

Roblox
San Mateo, CA

INCOMING SOFTWARE ENGINEER INTERN
March. 2023 - May. 2023

- Spring 2023

Coinbase
San Francisco, CA

SOFTWARE ENGINEER INTERN
Aug. 2022 - Present

- Institutional - Custody Applications Teams
- Developed an application to allow bulk setup of vesting wallets for institutional clients

Capital One
San Francisco, CA

SOFTWARE ENGINEER INTERN
Jun. 2022 - Present

- Designed and developed a full stack dashboard application to visualize patent data
- React, Typescript, Python, Docker, Lambdas, Elasticsearch, S3, DynamoDB

Projects

Memora
NextJS, NodeJS, MySQL, MongoDB

- A cognitive game platform that converts user game scores into MMSE scores
- Intended to monitor and slow the progression of Alzheimer's Disease. Created for HackDavis.

https://memora-zeta.vercel.app/

4Pix
ReactJS, NodeJS, MySQL, SASS

- An image hosting site for sellers to share photos of their products and expand their business.
- Allows sellers to divide their albums into different categories for easier browsing.

https://github.com/tomzheng2001/4Pix

Portfolio Website
ReactJS, SASS

- A responsive portfolio website that showcases a variety of projects, coursework, along with information about me.
- Styled in pure CSS without any CSS frameworks (only SASS preprocessor)

https://tomzheng.me/

RookieDB
Java

- A full database implementation written for CS186
- Supports joins, B+ Trees, query optimization, concurrency, and recovery.

https://git.io/J1EwL

Gitlet
Java

- A version control system similar to git written for CS61B
- Supports ommits, checkouts, logs, branches, and merging.

https://github.com/tomzheng2001/gitlet

Extracurricular Activity

Clubs & Organizations   Pioneers in Engineering, Cal Fencing, Cal Speedcubing Club, Cal Table Tennis Club
OverCOME Mentors   Technical Director, assisting with design/development of website

Skills

Programming Languages   Python, Java, TypeScript, JavaScript, Go, HTML, SQL, CSS, GraphQL, C++, C
Frameworks/Databases   ReactJS, NodeJS, NextJS, MySQL, MongoDB, PostgresSQL, TailwindCSS
Other   Docker, Bazel, Google Cloud, AWS: S3, DynamoDB, Lambda, OpenSearch