

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

May. 2023 - Aug. 2023

- Summer 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

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

- 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.

4Pix

ReactJS, NodeJS, MySQL, SASS

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

- 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.

Portfolio Website

ReactJS, SASS

<https://tomzheng.me/>

- 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)

RookieDB

Java

<https://git.io/J1EwL>

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

Gitlet

Java

<https://github.com/tomzheng2001/gitlet>

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

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, PostgreSQL, TailwindCSS

Other

Docker, Bazel, Google Cloud, AWS: S3, DynamoDB, Lambda, OpenSearch