

BENJAMIN CHEN

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EDUCATION

Yale University, New Haven, CT

Expected Dec 2023

BS in Computer Science, GPA: 3.7/4.0

Relevant Coursework: Product Management, Distributed Systems, Operating Systems, Data Structures and Algorithms, Systems Programming, Linear Algebra, Financial Economics, Discrete Mathematics, Probability Theory

WORK EXPERIENCE

Workday, *Software Development Intern*, Boston, MA

May 20223 – Present

- Intelligence Automation team to reduce system downtime and improve disaster recovery

Gatsby Labs (8VC Fellowship), *Full Stack Engineering Intern*, San Francisco, CA

May 2022 – August 2022

- Spearheaded analytics project to generate insights and performance metrics to our clients using our product, contributing over 100 commits to the entire stack of the repository, the fourth highest in a team of eleven full-time engineers
- Improved efficiency of our email job handling infrastructure by 15% through implementing ephemeral Kubernetes pods which acted as our email agents
- Collaborated on our messaging center, proprietary UI component library, and security, completing 30+ tickets

Orthogonal Trading, *Quantitative Analyst*, Sydney, Australia

Apr 2021 – Aug 2021

- Developed positive-alpha liquidation arbitrage strategy by observing large scale liquidation events in the crypto market, resulting in a Sharpe ratio of 2.21 with limited downside risk
- Worked closely with the CTO to develop trading models and back test the firm's trading strategies, specifically on their long gamma strategies
- Established Twitter sentiment analysis project as a basis for future trading strategies by creating a data pipeline that stores over 1 million tweets in a Postgres database

Firm Prospects, *Data Analyst*, Boston, MA

Jun 2020 – Aug 2020

- Built company's data scraping pipeline so that the infrastructure was in-house with the head of data, involving scraping, cleaning, validation, and entity extraction
- Implemented entity extraction using the SpaCy library for identifying educational credentials in a lawyer's biography, achieving an F₁ score of 0.87 on a set of 30K+ lawyer bios

PROJECTS

mCertiKOS

Oct 2022

- OS implementation involving virtual memory, file system, signal handling, multiprocessor support

MockExamApp – (mockexamapp.com)

Dec 2021

- SAT/ACT exam simulator built using Django and PostgreSQL for tutoring company AlexanderAcademy
- 100+ users, 20k+ backend calls, 30k rows of data

Unix-Shell

Nov 2021

- Backend implementation of UNIX shell written in C

ORGANIZATIONS

Yale Tsai Center for Innovative Thinking (Tsai CITY), *Co-Chair of Student Board*

May 2022 – Present

- Launched fellowship program to improve culture of innovation at Yale with ~\$50k budget

Yale Urban Philanthropic Fund, *Portfolio Manager*

Sep 2021 – Present

SKILLS AND INTERESTS

- **Languages:** (Proficient) C, Python, JavaScript, HTML/CSS | (Familiar) Java, SQL
- **Technologies:** (Proficient) Git, AWS, REST API's, PostgreSQL, MongoDB | (Familiar) Heroku, Kubernetes, Redis
- **Interests:** Hard rock guitar, basketball, making people laugh