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: Operating Systems, Data Structures and Algorithms, Systems Programming, Linear Algebra, Financial Economics, Discrete Mathematics, Probability Theory

WORK EXPERIENCE

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 repository on the frontend, backend, and infrastructure, 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 F_1 score of 0.87 on a set of 30K+ lawyer bios

PROJECTS

mCertiKOS   Oct 2022
- OS implementation involving bootloader, virtual memory, process management, multiprocessor support

MockExamApp – (mockexamapp.com)   Dec 2021
- SAT/ACT exam simulator built using Django and PostgreSQL for tutoring company AlexanderAcademy

Unix-Shell   Nov 2021
- Backend implementation of UNIX shell written in C

StockTools   Jan 2021
- Reddit stock sentiment analyzer developed with Python Reddit API and NLP

ORGANIZATIONS

Yale Tsai Center for Innovative Thinking (Tsai CITY), *Student Board Member*   May 2022 – Present
Yale Urban Philanthropic Fund, *Portfolio Manager*   Sep 2021 – Present

SKILLS AND INTERESTS

- **Languages:** (Proficient) C, Python, JavaScript, HTML/CSS | (Familiar) Java, SQL
- **Libraries/Frameworks:** (Proficient) Django, Pandas, ReactJS, SpaCy | (Familiar) Node.js. Express.js
- **Technologies:** (Proficient) Git, AWS, REST API's, PostgreSQL, MongoDB | (Familiar) Heroku, Kubernetes, Redis
- **Interests:** Hard rock guitar, basketball, sociology, making people laugh