Ethan Ding

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EDUCATION

University of California, Berkeley, College of Engineering   **Berkeley, CA**
- Bachelor of Science in Industrial Engineering and Operations Research   Aug 2017 – May 2021
- Bachelor of Science in Computer Science   GPA: 3.504
- Coursework includes algorithms & data structures, machine learning & data analytics, web / mobile development, linear programming, discrete optimization, probability & risk analysis, corporate finance & financial engineering,

EXPERIENCE

WorknGo   **Berkeley, CA**
Software Developer   August 2019 – Current
- Developed search bar functionality, integrated iOS & Android application with Venmo API, operating with **React Native Javascript**
- Automated user migration process from older web application platform onto mobile platform, reducing the workload by 90%
- Carried out a Search Engine Optimization project that increased user traffic on Google Play Store by 28% with a team of 4

Xenon Partners   **Tokyo, Japan / San Francisco, CA**
Software Engineering Intern   May 2019 – Aug 2019
- Developed a web application using **Ruby on Rails**, integrating 7 APIs: ranging from Domain Name Service providers like Gandi and Moniker to authentication verifiers like Omniauth.
- Used a proprietary lead generation web scraper in the broader Software-as-a-Service industry to generate 400 leads
- Conducted liaison between potential acquisition targets and the firm, successfully arranging and executing 35 meetings in total
- Assisted in the development of an auto-complete functionality for the web scraper's search bar

Convergent at Berkeley   **Berkeley, CA**
Build Team Leader - Technology   Feb 2019 – Aug 2019
- Created pitch deck for a product called "CashMoney", a crowd sourced, localized marketplace of services for collegiate communities
- Wireframed minimum viable product using **Adobe XD**, further developed application with **React Native Javascript**
- Led 5 teams of 2 students through the development process, presenting in a "Demo Day" for Venture Capital investors

Data Science Society   **Berkeley, CA**
Data Analyst   Jan 2019 – May 2019
- Conducted longitudinal studies of 181 countries' GDP growth rate in relation to 12 different factors, from the presence of trade barriers to national spending on education per capita using **NumPy packages** on **Jupyter notebook**, written **Python**
- Conducted cross sectional (across countries) studies of 181 countries' economic policies' effects on their GDP

Ulsan National Institute of Science and Technology   **Ulsan, KR**
Artificial Intelligence Intern   May 2018 – Aug 2018
- Built environment to simulate game theory interactions of 10,000 AI agents in a 100 x 100 grid using the **Axelrod Python** library
- Collected and analyzed data of cooperative tendencies among agents in environment, adjusted 2 key evaluation nodes to test effects
- Optimized total utility produced in system by average of 12% across all agents in environment using optimal settings on nodes

PROJECTS

Probtester   *August 2019*
- I really enjoy working with probability and expected value, and I constructed a statistics project to collect and process the simulated results of various expected value phenomenon (i.e. Martingale betting strategy, Blackjack card counting, Poker odd's builder)

Prospector   *August 2019*
- Prospector is a B2B SaaS product that helps private equity companies find prospective clients that I have founded (working on)

Personal Website   *May 2019*
- Personal web development project; built personal website with my works using the **Ruby** static site generator **Jekyll**

Google Tech Challenge   *April 2019*
- Competed in a variety of programming and creative mathematics challenges with a team of 5 against Stanford and MIT teams

ADDITIONAL INTERESTS

Vice President of Alpha Sigma Phi: Grew a fraternity of 8 brothers and no reputation into 30 people with highest campus recognition
British Mathematics Olympiad Finalist: 4 year placement in 0.5% bracket for Mathematics Olympiad of ~200,000 participants
Language Skills : Fluent in speaking / writing / reading in Mandarin and English
Chess Club: Founded, and served for two years as president of high school chess club, qualified for regional tournaments
Poker Club: Runs weekly no limit Texas hold'em poker games, building a poker bot in python (very rudimentary)
Family Head for Asian American Association: Organized weekly events for largest culture club on campus
Debate / Public Speaking: Head delegate of model united nations & captain of debate team