Jonathan F. Kao

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EDUCATION

University of Pennsylvania - *Jerome Fisher Dual Degree Program in Management & Technology (M&T)*
Degrees: Penn Engineering, Bachelor of Science in Engineering | **Wharton**, Bachelor of Science in Economics
Majors: Computer Science | Finance
Relevant Courses: Stochastic Processes (STAT433), Engineering Probability (ESE301), Advanced Linear Algebra (MATH314), Discrete Math (CIS160), Algorithms and Data Structures (CIS 121), Big Data Analytics (CIS545)

AWARDS AND HONORS

- **USA Computing Olympiad (USACO) - Platinum division** - USA top 150 competitive programmers (2020)
- **Wharton Innovation Fund Startup Grant Winner** - awarded funding for UmpireCast startup progress (2021)
- ClearCov19 Coronavirus Dashboard - initiatives featured in 4 regional newspapers: 20,000+ website visits (2020)
- Carol Bartle Hughes Memorial Scholarship - graduated first in class Palo Alto High School (2020)

TECHNOLOGY/COMMUNITY LEADERSHIP ACTIVITIES

USA Computing Olympiad (USACO) Platinum Division *(January 2018 - Present)*
- Top 150 competitive programming high schoolers (highest division)
- Train to solve computational algorithm problems under high pressure competitive environment

Penn Poker Club - Board Member *(January 2021 - Present)*
- Organize and play in home games
- Study game theory optimal and exploitative poker strategies

UmpCast Management System - Co-Founder *(January 2020 - Present)*
- Identified need for youth umpire management software
- Recruited start-up team and secured funding from Wharton Innovation Fund
- Launched beta version in Palo Alto Little League with 30+ users (year 1)
- Designed version 2 and launched to 5+ paid leagues with 300+ users (year 2)
- Built with scalability in mind: deploying to 15+ leagues in upcoming year

Penn Labs - DevOps Engineer (August 2021 - Present)
- Work on platform team to build club development and deployment infrastructure

ClearCov19 - Coronavirus Dashboard *(April 2020)*
- Identified need at the beginning of quarantine for a compiled Coronavirus data source
- Grabbed/scraped data from multiple data sources, displayed in a visually appealing dashboard
- 20,000+ website visits, featured in 4 regional newspapers

EMPLOYMENT

Very Good Ventures - Software Engineering Intern *(May 2021 - Present)*
- Partnered with team to architect, build, and scale Flutter apps for clients
- Developed open source projects using the Flutter Bloc state management library
- Worked on Backend and DevOps code for internal tooling, streamlining development process for other team members

Top Tier Admissions - Instructor *(April 2020 - Present)*
- Instruct standardized testing STEM subjects: Math, Computer Science, Physics, Chemistry, 350+ hours tutored
- Launch SAT Bootcamp with personally curated curriculum content videos

Palo Alto Little League Umpire Manager *(March 2018 - Present)*
- Identified need & created scheduling service for Little League umpire managers to manage prospective umpires
- Launched web application: 30+ umpires signed up for 100+ games in first season, personally umpired 30+ games

OTHER INTERESTS

- Competitive Fantasy Football
- Baseball (High School Team)
- Poker