

Jonathan F. Kao

jkao97@yahoo.com | GitHub: <https://github.com/jonathankao97> | Website: <https://jonathankao97.com>

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: Programming I (CIS120: A), Discrete Math (CIS160: A+), Algorithms and Data Structures (CIS 121: A+), Big Data Analytics (CIS545: A)

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)

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

TECHNOLOGY/COMMUNITY LEADERSHIP ACTIVITIES

USA Computing Olympiad (USACO) Platinum Division (January 2018 - Present)

- Top 150 competitive programming high schoolers (highest division)

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

B-Prepared (August 2021 - Present)

- Identified need for boy scouts event tracking and internal communication app
- In closed beta, planned Spring 2022 release

OTHER SKILLS/INTERESTS

Essentials: VSCode + Extensions, ITerm + Zsh, Git, Python, Java

Backend: Django Rest Framework (REST), Django Graphene (GraphQL), MyPy type checking, Celery/Redis (Asynchronous Worker Tasks), Snapshot (Integration)/Unittest Testing, Database Design, API Design

DevOps: GitHub Actions, Docker, DockerCompose, Kubernetes, Terraform (Infrastructure as Code), Ansible Secrets Management, AWS

Interests: Poker Theory (Penn Poker Club Board Member), Baseball (Palo Alto High School team, Little League Umpire)