David Ahn

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Education

- **University of Pennsylvania -** Major GPA: 4.0/4.0, Cumulative GPA: 3.83/4.0 2022
  ***Bachelor** of Engineering in Systems Engineering, Computer Science, Statistics **Masters** of Engineering in Data Science*
- **Gretchen Whitney High School -** GPA: 4.0/4.0 2019
  Valedictorian, Class President, President of STEM club and Mathcounts

Relevant Coursework and Skills

- **Relevant Courses**: Decision Models, Negotiations, Engineering Entrepreneurship, Data Structures/Algorithms, Probability, Big Data Analytics, Dynamical Systems, Optimization Theory, Data Mining, Artificial Intelligence
- **Technical Skills**: Java, Python, SQL, R, Excel, HTML, CSS, Pandas, NumPy, PyTorch, MATLAB, LaTeX, Agile

Work/Volunteer Experience

- **University of Pennsylvania**
  Undergraduate Research Assistant/TA *2020 - 2021*
  - **Research Project**: Worked on NLP project involving semantic parsing and interpreting user's English language input and "editing" this input (using Monte Carlo and other methods) to correspond to closest SQL commands. https://trustml.github.io
  - **Teaching Assistant**: TA for ESE 111(Atoms, Bits, Circuits, and Systems) and M&TSI summer camp. Led groups of students in creating and launching their own products (electrical wiring, arduino code, implementation of sensors, presenting a MVP, deploying marketing strategies). (built a smart waterbottle sensor system when I took the course)
- **Ense**
  Product Manager/Data Scientist *2021*
  - : Identified pain points of current offerings and led the product team through agile development of features for the Ense app (audio social network) as well as Smalltalk (audio based meeting platform).
  - : Developed marketing campaigns to onboard over 4,000 new users and double regular engagement of current users
- **Instahub**
  Product Manager *2020*
  - : Managed product team in working with company leaders to create action plans for new product launch, analyzing market feedback through A/B tests, optimizing product design, functionality
- **Crittenton Services for Children and Families**
  Head Logistics Intern *2018 - 2019*
  - : Coordinated logistics for various events throughout the year including annual Christmas Drive (10,000+ gifts collected)
- **Boeing**
  Summer Intern *2018*
  - : Led a team to create a fully autonomous vehicle capable of obstacle detection and avoidance

Extracurriculars and Activities

- **Wharton Undergraduate Data Analytics Club (WUDAC)** ***(Education)***: Create curriculum for and run Analytics 101, 201 courses which teach Python and R for Data Science Applications *(2020 - present)*
- **Wharton Management Club** ***(Project Lead)***: Member of the Applied Management Program (AMP) which provides pro bono consulting services for smaller, local companies. Led teams in working with company leaders to create action plans for new product launches, generating leads to new clients, and optimizing online customer engagement. *(2019 - present)*
- **Wharton Undergraduate Consulting Club** ***(Corporate Relations)***: Raised over $6,500 from corporate sponsorships to fund our club's annual consulting case conference. Established relationships with over fifteen large consulting companies to serve as speakers for career panels, coffee chats, workshops, and case competition judges. *(2019 - present)*
- **West Philadelphia Tutoring Project** ***(Section Lead Tutor)***: Work with students from local middle and high schools to work on developing skills in subjects including Science, Math, and English/Writing *(2019 - 2020)*
- **STEM Club/Science Olympiad** ***(Founder and President)***: Founded the Whitney Science Olympiad Team, placing 4th in California; Led the largest club on campus (200+ members) in community service, math/science competitions, workshops, science fairs, raised over $2500 in sponsorships and fundraisers; Involved in planning Penn's annual Science Olympiad invitational competition (organizing and proctoring Codebusters and Forensics events) *(2017 - present)*

Projects

- **Voice Recognition (Python)**: Designed a system for voice recognition of a spoken digit using Fourier Analysis: Average Spectrum and Nearest Neighbor comparisons
- **TwitterBot (Java)**: Learn from real tweets to generate original tweets, data cleaning/filtering, Markov chain concepts
- **Spotify Recommender (Java, Python, Spotify API)**: Recommendation system for music, playlists, and artists through network analytics
- **NBA Playoff Predictor (R, Python)**: Presented at UPenn Data Science Live; built Penalized Regression(Lasso, Ridge, Elastic Net) Random Forest, and Boosting Models on in-game statistics to predict playoff outcomes for 2021 season.

Interests

∗ : MLB(Dodgers), NBA, Guitar, Tennis, Frisbee, Machine Learning, Logic Puzzles, Community Service, Renewable Energy