JACK GOETTLE

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EDUCATION

University of Pennsylvania School of Engineering and Applied Science — *Philadelphia, PA*
Master of Science in Engineering – Computer Information Science — *Graduating May 2022*
Bachelor of Science in Engineering - Computer Information Science — *Graduating May 2021*
- GPA: 3.48/4.0 || Minors: Math | Data Science | Entrepreneurship
- Coursework: Data Structures & Algorithms, Scalable & Cloud Computing, iOS Development, Applied Machine Learning, Advanced Probability, Software Design, Databases & Information Systems, Linear Algebra, Intellectual Property, Blockchain

Moorestown High School — *Moorestown, NJ*
High School Diploma — *May 2017*
- GPA: 4.0/4.0 | Involvement: Student Body President, Honors and Service Society President, Varsity Track & Cross Country
- Awards: National Merit Commend Scholar, National AP Scholar. SAT: 2300 (M 770, CR 750, WR 780)

PROFESSIONAL EXPERIENCE

Square — *San Francisco, CA*
Software Engineer Intern — *Summer 2020*

Comcast NBCUniversal — *Philadelphia, PA*
Strategic Analyst Intern — *Summer 2019*
- Tasked with building Hive User Defined Function (UDF) that enables efficient customer engagement classification. Built the UDF in Java using a Poisson distribution and integrated with Apache Hive to leverage parallelism in Hadoop MapReduce framework and improve SQL querying capabilities. Decreased classification runtime from 1+ hours to a few seconds.
- Built a random forest model to uncover most predictive attributes of a customer's propensity to opt into "mini tier" plan. Used voting-based methodology and 6 ML techniques (RF, Chi Square, RFE, etc.) for dimensionality reduction and classification. Model performed at 90% accuracy with 86% opt-in TPR.

Tabula Rasa Healthcare — *Moorestown, NJ*
Data Analyst Intern — *July 2018 – August 2018*
- Built K-means clustering algorithm using Python and SQL to better understand cohort of patients who were at low risk for medical emergency yet were paying a lot for medical services (low risk / high cost).
- Gained experience in SQL, Python, and basic data science techniques. Piloted RapidMiner software which is now widely used within company.

BDP International — *Antwerp, Belgium*
Supply Chain Management Intern — *May 2018 – June 2018*
- Summer 6-week logistics and supply chain management optimization intern. Coordinated chemical exports and expedited supply chain for chemical companies including Bayer, Covestro, and Lanxess.
- Learned SQL, shipping logistics, and toured around Europe.

PROJECTS & LEADERSHIP EXPERIENCE

Mojo — *Philadelphia, PA*
Partner — *August 2019 – Present*
- Social media iOS start-up for map-based networking on college campuses. Beta tested on Penn's campus with 1.1k users.
- $15k in funding from an investment board of 7 individuals. Selected for the Harvard Innovation Labs incubator in 2018 (under the name "Pulse") before pivoting.
- Developed in Swift the app's core functionality including the profile page. Responsible for backend design and Firebase integration.

Wharton Undergraduate FinTech Group (WUFT) — *Philadelphia, PA*
Vice President of Tech Trek — *October 2018 – Present*
- Responsible for organizing a trip to Silicon Valley each Fall to visit 12 cutting-edge companies in tech, finance.
- Coordinating coffee chats and Q&A sessions with prominent tech executives.

Beta Theta Pi Fraternity — *Philadelphia, PA*
Treasurer, Recruitment Chair — *September 2018 – Present*
- Responsible for collecting and managing an $80,000 budget on behalf of my fraternity.
- In charge of organizing and allocating dues for philanthropy, recruitment, brotherhood, and social events.

SKILLS & INTERESTS

Programming languages & technologies

Language	Level	Language	Level	Technology	Level
Java	■■■■■	NodeJS	■■■■□	AWS	■■■□□
SQL	■■■■■	JavaScript	■■■■□	MongoDB	■■■□□
Python	■■■■□	Swift	■■■□□	C	■■■□□

Interests: Hiking national parks, skiing, entrepreneurship, football, guitar