Rob Schwartz

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EDUCATION

AMHERST COLLEGE | AMHERST, MA   Class of 2019
Bachelor of Arts, Computer Science and Philosophy
- GPA: 3.50/4.00
- Men's Varsity Squash: 2016-2018 NESCAC All-Academic
- GMAT: 720
- Sample Coursework: Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Networks, Data Mining, Computer Systems, Logic, Statistics with Modeling

PHILLIPS ACADEMY | ANDOVER, MA   Class of 2015
- GPA: 5.0/6.0
- Member of Varsity Squash Team, Co-Founder of Andover Photography Club, Liaison to SquashBusters Lawrence

PROFESSIONAL EXPERIENCE

FREDERIC W. COOK | LOS ANGELES, CA   2019-2020
Data Analyst
- Leading executive compensation consultancy firm, serving both publicly traded and privately held organizations
- Researched peer companies and compensation plans, including equity incentives, non-equity incentives, and other stock plans, with subsequent analysis in **Excel**
- Prepared and edited presentations and reports as client deliverables, integrating aforementioned analysis

SIGNAL FOX | NEW YORK, NY   Summer 2018
Data Science Intern
- Consumer analytics startup that optimizes customer acquisition and devises growth strategies through data analytics
- Queried **PostgreSQL** with **SQL** to create dashboards and charts for clients in **Python** using **Plotly**
- Frequent communication with clients to present and provide insight for new deliverables
- As primary advisor to a mobile gaming startup, calibrated their in-game economy to maximize customer spend, **increasing revenue by 20% over two months**

SAMPLE PROJECTS

RATEOURCOURSES.COM   2018-Present
Cofounder, President, Chief Developer
- Led development of the website, which enables Amherst College students to submit and review evaluations to inform their course selection process
- Oversaw development and promotional teams to create website and seed review database
- Houses over **1,000 reviews from 400+ unique users**
- Developed using **Bootstrap**, **PHP**, and **MySQL**

SOCCER ANALYTICS   2020
- Created a web scraper in **Python**, using **BeautifulSoup**, to gather soccer statistics from a prominent statistics website
- Program identifies and collects relevant data and outputs Excel file with complete dataset of all matches for each player
- Using data, developed a **linear regression model in R** to predict players' performances and inform daily fantasy selections

AI PAC-MAN   2017
- Designed an intelligent Pac-Man agent in **Python** using **artificial intelligence** and **machine learning** techniques from relevant college courses
- Techniques utilized include: A* heuristic search for pathfinding and traversal, Markov Decision Processes and Bayesian Networks for complex decision making, and Particle Filtering for state tracking
- Developed for Artificial Intelligence course taken in Fall 2017

SKILLS

- Python (5 years): NumPy, Pandas, Scikit-Learn, Matplotlib, Plotly
- Java (5 years)
- Front-End: JavaScript, HTML, CSS, Bootstrap
- Back-End: Python, Java, Node, Express, PHP
- Databases: PostgreSQL, MySQL, MongoDB
- Analysis: Python, Excel, R
- Conversational in Russian and Italian