Alex T. Wainger

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Education

Columbia University, New York NY — September 2016 — December 2017 (expected)

- Pursuing a Master of Science in Data Science, GPA: 4.08 (A+/A average).
- Coursework: Applied and Theoretical Machine Learning, Exploratory Data Analysis, Computer Systems for Data Science, Algorithms, Probability Theory, Statistical Inference and Modeling, Storytelling with Data.

Brown University, Providence RI — September 2012 — May 2016

- Sc.B. in Computer Science, GPA: 3.9 (4.0 in major).
- Relevant coursework: Data Science, Probability and Computing, Software Engineering, Computational Vision, Multiprocessor Synchronization, Computer Systems Security, Computer Systems, Applied Artificial Intelligence.

Work Experience

Facebook, Data Engineer, Analytics Intern, Seattle WA — May — August 2017

- Built efficient and reliable pipelines in Presto and Hive to create a number of core datasets for two product teams.
- Built dashboards for teams to monitor key goals and metrics using Unidash, Argus, and Preso, which led to insights about the products and inspired future analyses.
- Worked closely with data scientists and SWE's, served as point-of-contact for all data questions and issues.

Columbia University, Graduate Research Assistant, New York NY — December 2016 — Present

- Collaborating with Columbia Business School Professor Mark Broadie on golf-analytics research projects.

Coleman Research, Data Analysis and R&D Intern, New York NY — June — August 2016

- Performed a number of research projects for the CTO. Built prototypes in Python and C#.
- Projects included recommending and implementing a switch from Solr to ElasticSearch, a weighting algorithm and visualization for NLP tagging data, populated and queried a Neo4j graph database to uncover client insights.

Zocdoc, Software Engineering Intern, New York NY — June — August 2015

- Served on the patient team in a full-stack role; built a tool to mark insurance card images for use with an OCR.
- Participated in code reviews, scrums, and demos to the patient team and the Technology department.

Selected Data Projects

1st Place, NBA Hackathon — September 2016

- Finished first out of the 60 teams (over 200 participants) at the hackathon.
- Analyzed SportVU data, determined that "hero ball" is more prevalent in the playoffs than in the regular season.
- Cleaned and processed data in Python, created an interactive visualization from summarized dataset using D3.js.
- Featured in articles by TechCrunch and the Columbia Data Science Institute.

NBA Substitution Patterns, Personal Project — August 2016

- Created a heatmap to visualize playing time trends for each player across teams and seasons in the NBA.
- Built a Python scraper for basketball-reference.com, visualized data with D3.js. Shared findings on r/NBA.

Hot Hand Analysis, Brown CS Capstone Project — January — May 2016

- Led a team of 4 classmates. Developed a web app to investigate whether or not the hot hand exists in the NBA.
- Scraped 16 years of play-by-play data. Built interactive visualizations to explore different aspects of the dataset.

Leadership Experience

Columbia Data Science Society, VP Marketing, New York NY — September 2016 — Present

- Organize corporate events and workshops that serve to teach and foster the Columbia data science community.
- As VP Marketing, oversee Facebook page (2400+ likes), newsletter (2000+ subscribers), and website.

Brown Daily Herald, Sports Editor, Providence RI — September 2013 — May 2016

- Assigned, revised, and edited all articles in the sports section, served on weekly editors' content-planning team.

Technical Skills

- Languages: Python (Numpy, Pandas, Sklearn, etc.), SQL, JavaScript (D3.js), R (ggplot, tidyr), MATLAB, C#, Java.
- Experienced with Git, Jupyter, Vim, Atom/Nuclide, Visual Studio, Eclipse, OS X, Debian Linux, and Windows.