NOAH WOODWARD
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WORK EXPERIENCE
Atlanta Braves, Major League Operations – Atlanta, GA
Senior Manager - 11/2019 to 01/2020 - Hours per week: 40
Manager - 11/2018 to 10/2019 - Hours per week: 40
Analyst - 11/2015 to 10/2018 - Hours per week: 40

The Atlanta Braves Baseball Operations group handles all decisions surrounding player personnel. Areas of focus within the group include: scouting of amateur and professional players, process improvement, research and development, administration, rules compliance.

DUTIES AND RESPONSIBILITIES

The Major League Operations group distills data from a wide variety of sources into usable insights for baseball staff. As the group's manager, I hired our initial staff and oversaw the development of technical products to serve non-technical users. I was the group's primary liaison to our Research and Development team and to our group of end users (coaches, players, and executives).

PRODUCT MANAGEMENT:

- Spent two years embedded with a non-technical user group (baseball coaches and players) developing relationships and acceptance of new methods of operation.
- Used the lean startup method and iterative development to manage the creation of two large-scale web applications serving the needs of dozens of users.
- Developed new product ideas through serving as an active listener; frequently surveyed the needs of users formally and informally.
- Translated user product requests into technical specifications and pointed analysts to relevant data sources.

LEADERSHIP AND TEAM DEVELOPMENT:

- Hired and managed 7 analysts and groups of seasonal interns.

- Led the group through a period of rapid growth and transition prior to holding title of "Manager."

- Fostered the development of individual team members through showcases of their work and by facilitating interactions with subject-matter experts.

- Developed a network of colleagues in similar roles to share best practices and common challenges.

- Trained 25+ users spread across 5 different affiliate sites on the use of a new organizational platform and provided ongoing support through in-person travel check-ins.

ANALYSIS:

- Drew on experience with user group to construct industry-specific indicators and reports. These efforts led to numerous actionable insights applied by players and coaches.

- Quantified and tracked the initiatives of the Major League Operations team as they related to operational decisions and results. Oversaw and personally implemented several initiatives that resulted in multi-million dollar value gains for the organization through improved performance.

- Provided real-world feedback and technical support to Research and Development group on specifications for predictive models.

- Developed frequent, timely ad-hoc visualizations and presentations in response to specific user requests.

TECHNICAL SKILLS:

- Developed the organization's first-ever automated scouting package, including 30+ customized reports and visualizations built using R and RMarkdown. Used R and Python to fill daily ad-hoc requests.
- Managed and contributed to the development of a web application in the Python Flask framework.
- Developed reports/visualizations using HTML, CSS, and Javascript (including dynamic visualizations in d3.js).
- When managing the build-out of our organization's first internal scouting platform, I oversaw and contributed code to the creation of 100+ daily ETL scripts with a variety of interdependencies.
- Used SQL on a daily basis to fulfill requests for analysis on baseball-specific data from over 10 different data providers.

Baltimore Orioles – Baltimore, MD
Analytics Intern – 09/2015 to 11/2015 - Hours per week: 40

The Baltimore Orioles Baseball Analytics group focused on the development of predictive models, data visualizations, and data accessibility resources to serve the entire Baseball Operations team.

DUTIES AND RESPONSIBILITIES

Served in a temporary capacity to further the efforts of the Baseball Analytics team through several projects

ANALYSIS AND PRODUCT DEVELOPMENT:

- Improved the team's internal model used to project the performance of professional baseball players through back testing the addition of new data features.
- Developed a proprietary model to compare pitch trajectory data across individual players and develop similarity scores within the data; presented results from this model to the Director of Analytics and facilitated its integration into existing training programs.
- Developed an automated video package to illustrate model conclusions in a real-world setting.
- Collaborated with other analysts to brainstorm project ideas and improvements.

TECHNICAL SKILLS:

- Coded model and associated automated video product using R and RMarkdown. Scaled this model using parallel computing package in R.
- Accessed and manipulated novel data sources using SQL code on a daily basis.

Cornerstone Research – New York, NY
Analyst – 08/2014 to 08/2015 - Hours per week: 40

Cornerstone Research provides economic and financial analysis in litigation and regulatory proceedings. Staff consultants collaborate with a network of testifying experts to bring specialized expertise to meet the demands of each assignment.

DUTIES AND RESPONSIBILITIES

As an Analyst, I worked in small teams to produce qualitative and quantitative analysis related to specific economic and financial matters. I worked with other members on each team to summarize key research into interpretable briefs, develop models to isolate the effects of potential economic damages, and to present analyses to client attorneys and experts.

ANALYSIS:

- Ran hypothesis tests to evaluate price-fixing allegations on a specific market that traded over $50+ trillion in assets and included the nation's largest investment banks.
- Presented written market analysis and assessment of impact to client in patent infringement case.
- Analyzed millions of transactions between investment banks of complex securities.

TEAMWORK AND LEADERSHIP:

- Collaborated with other analysts to administrate the firm's analyst hiring process, contributing to outreach/recruitment programs and conducting formal case interviews.
- Trained other colleagues on database programming for a specific case need and participated in a variety of formal and informal professional development trainings.
- Communicated complex technical findings to non-technical stakeholders through formal presentations and meetings.

TECHNICAL SKILLS:

- Analyzed financial transaction data in relational database using SQL code.
- Created linear regression models using SAS code and securities pricing data.
- Built a network of damages models using dynamic Excel workbooks and VBA code.
- Ensured each piece of analysis was perfectly repeatable through a comprehensive data quality and review process.

Aon Hewitt Consulting – Atlanta, GA
Actuarial Intern – 06/2013 to 08/2013 - Hours per week: 40

Aon Hewitt's Actuarial group provides customized support to its clients seeking to provide comprehensive and cost-effective health care to individual members.

DUTIES AND RESPONSIBILITIES

As an Actuarial Intern, I spent three months working on analysis serving specific clients, which included Georgia Medicare and several corporations. I assisted with the impact assessment of the Affordable Care Act and provided solutions for ranges of scenarios.

ANALYSIS AND TECHNICAL SKILLS:

- Developed actuarial pricing models for specific population groups and presented those models to organizational leadership.
- Modeled the impact of the Affordable Care Act on clients and created viable strategies for comprehensive care.
- Completed discount analysis on millions of Georgia Medicare transactions using SQL code.

EDUCATION

Davidson College – Davidson, NC
Bachelor's Degree 05/2014
Major: Economics
Cum Laude
Omicron Delta Epsilon Honors Society (Economics)
Relevant Coursework: Computer Science, Econometrics, Behavioral Economics

PUBLISHED WORK

City of Boston 311 Dashboard
Currently developing a dashboard summarizing constituent 311 requests in the City of Boston (data collected via the Analyze Boston open data project).
Dashboard: https://nm-woodward.github.io/
Code Repository: https://github.com/nm-woodward/nm-woodward.github.io

Baseball Prospectus
Weekly Column – 05/2014 – 08/2014
Applied Analysis posts on specific baseball-related data topics.
https://www.baseballprospectus.com/author/noah_woodward/

The Hardball Times
Set of Research Articles – 02/2014 – 05/2014
Long form pieces on baseball research questions.
https://tht.fangraphs.com/author/nowoodward15/