

George Wilson

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OBJECTIVE | As a data professional, I am determined to **continuously learn new tools** and **offer innovative ideas** so that I can **elevate people and organizations** to the best versions of themselves.

WORK EXPERIENCE | **Data Engineer**, CapTech Consulting Sep 2019 – Present

- Augmented client understanding of key trends, team and employee performance, and data quality through the delivery of a robust reporting suite
- Created 30+ highly custom operational reports using dynamic SQL, SSRS, and PowerBI
- Developed ETL procedures to migrate millions of records from a legacy system into a SQL database
- Established a data warehouse to support uploads of external data sources and reporting needs
- Confirmed functionality of data development and data quality with manual testing and TSQLT test cases

Analyst Intern, CapTech Consulting May 2018 – Aug 2018

- Led three Agile front-end and back-end development workstreams as scrum master
- Researched and integrated geo-fencing, iBeacon, and ARKit technologies into an interactive iOS application for an automotive retail client
- Designed 18 d3-based dashboard widgets to aid client decision-making

Data Science Program Lead, HackCville Aug 2017 – May 2018

- Developed new learning materials and re-imagined course outline for a 12-week data science program
- Taught 70+ students data pre-processing, visualization, text analysis, and machine learning with Python

Data Analyst, Locus Health Jul 2017 – Jan 2018

- Delivered a custom report building tool to evaluate surgeon performance and eliminate 15 hours of labor for each report generation
- Anonymized data and created standard visualizations for use in sales demonstrations
- Enhanced user experience with development of a dynamic dashboard label based on a user's query

RESEARCH & PROJECTS | **Optimizing Customer-Agent Interactions with Natural Language Processing and Machine Learning**, Systems and Information Engineering Design Symposium Sep 2018 – May 2019

- Modeled call center conversations sequentially using a Markov decision process
- Annotated over 500 call center transcriptions to establish an outcome variable
- Identified optimal action for an agent to make given the inferred state of a customer

Promoting Fairness in Artificial Intelligence, Undergraduate Thesis Aug 2018 – May 2019

- Analyzed sociopolitical implications of algorithmic bias with a focus on language-based tools
- Recommended actions for engineers and relevant stakeholders to limit proliferation of bias

Predicting MLB Performance, Statistics Independent Study Jan 2019 – May 2019

- Evaluated progression and predicted major league success of 5,000+ minor league baseball players
- Scraped 15 years of minor league offensive statistics in R and linked players to MLB results
- Performed exploratory data analysis, engineered new features, and experimented with several models
- Extracted key trends and attributes of players at each playing level and identified top prospects

EDUCATION | **University of Virginia, School of Engineering**, Charlottesville, VA Aug 2015 – May 2019

- **Degree:** B.S. Systems & Information Engineering, B.A. Statistics
- **GPA:** 3.84/4.00 **Major GPA:** 3.96/4.00 **Graduation Honors:** Highest Distinction

SKILLS & INTERESTS | **Technical:** R, Python, SQL, Tableau, PowerBI, Java, Amazon Web Services, Adobe Illustrator/Photoshop, Microsoft Office, Git, SSRS, MATLAB, D3.js, and HTML/CSS/JavaScript
Certifications: AWS Cloud Practitioner **Languages:** English - Native, Spanish – Proficient
Interests: Data visualization, skiing, card games, sustainability, education, and traveling