ALEX STERN

Graduate School of Data Science, University of Virginia

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EXPERIENCE

Football Analytics Consultant
University of Virginia Football Team

📅 July 2019 – Ongoing   📍 Charlottesville, Virginia

- Co-developed a website that allows coaches to interact with and manipulate visualizations to assist with game-planning
- Developed predictive models for opponent prospecting and game-planning purposes
- Relayed descriptive statistical research to the coaching staff in a colloquial manner that was easy to digest
- Developed models for transfer prospect evaluation

Teaching Assistant, Software Development Methods
University of Virginia, Department of Computer Science

📅 January 2019 – May 2019   📍 Charlottesville, Virginia

- Assisted students during office hours with homework, projects, and technical questions related to software development in Java
- Participated in a TA practicum course to learn how to better assist students

Data Science Intern
Havas Helia

📅 May 2018 – August 2018   📍 Richmond, Virginia

- Built customer lookalike models used both for in-house tests and by clients
- Wrote Python packages to aid in the retrieval and manipulation of SQL Server data

PUBLICATIONS

Practical Applications of Space Creation for the Modern NFL Franchise
NFL Big Data Bowl, 2020

A statistical research paper utilizing NFL player tracking data to describe the quantitative/algorithmic measurement of space creation by offensive linemen for ball carriers and the consequential monetary discrepancies between a more advanced player grading system and current player salaries.
https://www.github.com/alexcstern/Big-Data-Bowl/blob/master/BigDataBowl.pdf

MOST PROUD OF

🏆 **NFL Big Data Bowl**
Player Scouting Algorithm Using Player Tracking Data
- Presenter: 2020 NFL Combine

🔗 **A Data Science Student's Algorithm Has the NFL's Full Attention**
https://news.virginia.edu/content/data-science-students-algorithm-has-nfls-full-attention

Talking Analytics with Alex Stern (008)
https://www.25hourideas.com/podcasts/talking-analytics-with-alex-stern

Algorithms in the War Room
https://open.spotify.com/episode/0sR2iogdepm7X1p5DSliNi?si=3crR3EMyT8Scp3qCPApbKw&nd=1

🏆 **Honorable Mention, Sports Info Solutions Football Analytics Challenge**
Multi-Level Player Value Evaluation Model

🏆 **Finalist, UVA Machine Learning for Good**
Sign Language Recognition Algorithm

STRENGTHS

Python   R   Java   C++   SAS   SQL
Bayesian Inference   Graphical Models
Machine Learning Algorithms   LaTeX
Image Recognition   Computational Efficiency
Data Structures   Pure Functional Programming

EDUCATION

M.S. Data Science
University of Virginia

📅 July 2020 – May 2021

B.A. Quantitative Statistics, Computer Science
University of Virginia

📅 August 2017 – May 2020

- Dean's List of Distinguished Students