

Cason Wight

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EXPERIENCE

Data Scientist

Oct 2021 – Present

Microsoft

Salt Lake City, UT (from home)

- Designed and created a custom audience segment recommendation system using a sample of 10M daily auctions; custom-written job was 1,000 times faster than the originally engineered method
- Developing a graph-based similarity search product for surfacing deals to ad traders

Data Scientist

Apr 2021 – Sep 2021

Northrop Grumman

Roy, UT

- Expanded NASA's sequential Monte Carlo model for mechanical components to include Bayesian estimation of unknown parameters; resolved critical errors regarding the physics and statistical logic in the existing model
- Optimized NASA's prognostic algorithms library, reducing compute time of the particle filter by > 99%

Data Science Intern

May 2020 – Aug 2020

Xandr (Now Microsoft Ads)

Portland, OR

- Constructed and deployed an economics-based, floor-price algorithm in a 3M+ impression experiment
- Led a statistical analysis of experiment results and presented to executives/clients; discovered 5% revenue loss

Data Analyst Intern (Actuarial)

May 2019 – Aug 2019

Cigna

Bloomfield, CT

- Created a batch rating tool that priced 100+ health plans simultaneously, using the existing rating model
- Conducted a study on vision product, using the rating tool; made suggestions with a potential 8% revenue impact

Data Analyst Intern (Actuarial)

May 2018 – Aug 2018

Oliver Wyman

Atlanta, GA

- Led a risk analysis study from client data to final reports, presented to the client as a formal document
- Evaluated dozens of risk studies for correctness and completeness, often leading to material changes

TECHNICAL SKILLS

Languages: Python, R, SQL, Stan, VBA

Development Tools: Jupyter, Git, VS Code, PyCharm/PySpell, RStudio

Libraries: Pandas/Numpy, SKlearn, PyTorch, cv2, Streamlit, NLTK, Tidyverse, GGplot, RStan, RShiny

ML Knowledge: Statistical/probability theory, NLP, computer vision, bayesian analysis, deep learning, graph theory

EDUCATION

Brigham Young University

Sep 2016 – Apr 2021

Master of Science in Statistics (3.95 GPA)

Bachelor of Science in Statistics, Emphasis in Actuarial Science (4.00 GPA)

Provo, UT

RESEARCH

Costs of Chronic Kidney Disease | *Markov Models, Classification, GLM*

Sep 2019 – Jun 2021

Semi-Markov Models and Panel Data | *Markov Models, Probability Theory, EM Algorithm*

Jan 2019 – Apr 2021

Error Bounds for Convolutions via the DFT | *Distribution Theory, Fourier Transform*

Nov 2017 – Apr 2019

Auto Loss Cost Trends | *Random Forests, Partial Regression, Auto Insurance*

Nov 2017 – Jan 2018

ACCOMPLISHMENTS

- Case Competition Winner: Domo Data Analytics (BYU, 2020) and CAS Data Visualization (ASU, 2019)
- BYU Student Research Conference session winner (2018 and 2020)
- Scholarships: BYU (2016-2020), BYU Statistics (2020-2021), CAS Trust (2019), Intel's Andy Grove (2017)
- Fluent in Spanish
- Eagle Scout