MATTHEW CARSWELL

msc301@georgetown.edu | (804) 814-6656 | www.linkedin.com/in/matthew-carswell-7977b3206/

EDUCATION

Georgetown University – MS *in Data Science and Analytics* **August 2023 - December 2024 (exp.)**
GPA: 3.96
- *Extracurriculars*: Teaching Assistant for Summer Coding Bootcamp for incoming data science students
- *Awards*: Awarded merit scholarship upon admission, awarded Returning Student Scholarship with a winning project of "Anthropogenic Climate Change and the Earth's Changing Landscape"

University of Virginia – *BA in Statistics (conc. Econometrics)* **August 2018 - May 2022**
GPA: 3.60
- *Extracurriculars*: Co-Founder of Sports Analytics at UVA, Analyst for Frank Batten Investment Fund

Relevant Coursework: Deep Learning, Computer Vision, Big Data/Cloud Computing, Machine Learning, Advanced Data Viz, Applied Time Series, Mathematical Statistics, Linear Algebra, Differential Equations, Cybersecurity/IT

WORK EXPERIENCE

Montgomery County Green Bank – Rockville, MD **June 2024 – Present**
Investment Associate
- Designed a Board-adopted subsidy sizing model for the bank's energy benchmarking program, determining subsidy amounts for properties based on a mathematical approach that prioritizes underserved communities
- Formulated climate-safe agriculture metrics for the bank and private lenders to integrate into their underwriting process, offering tools to evaluate and invest in climate-resilient agricultural practices
- Lead data visualization efforts using Tableau and Python, creating visuals for Investment Committee Memos, fundraising pitches, and internal support resources
- Analyze real estate data and financial statements using Python and Excel to assess risk across various industry sectors and financial instruments in the bank's portfolio at both market and individual investment levels

Weris – Sterling, VA **June 2022 – June 2024**
Market Research and Data Analyst
- Created a public-facing Work Plan for the Bureau of Transportation Statistics (BTS) that proposes new national data products for local transportation decision makers, ultimately being presented to the Secretary of Transportation and Congress (https://rosap.ntl.bts.gov/view/dot/67912)
- Solicited the input of the nation's leading experts on freight transportation and wrote an 80-page report for BTS that provides recommendations to their public freight-related statistics program
- Constructed labor cost models in Excel and serve as a technical writer for government contract proposals

Resultid.ai (2020 TechStars Startup) – San Francisco, CA (remote) **January 2021 – April 2022**
Investment Analyst and Content Writer
- Assessed innovative technological inventions from leading institutions in life and physical sciences to determine their market potential for NC State's 2021 & 2022 Chancellor Innovation Fund
- Completed 12 investment reports on technologies, 5 of which ended up receiving seed funding from NC State
- Managed and wrote a weekly market insight series on Resultid's blog page

Advent International Global Private Equity – Boston, MA **June 2021 – August 2021**
Data Science Intern
- Assisted with the development of an automated feed of general ledger data between PeopleSoft and the budgeting & forecasting system via SQL code to query, transform, and upload the data
- Built out numerous Tableau dashboards for P&L expense categories comparing monthly and year-to-date actuals to prior years and forecasts, to augment the monthly variance analysis process
- Developed solutions for calculating IRR within a Tableau dashboard of investment results, ultimately coding a customized function with R to dynamically calculate IRR across various segments of data

KEY SKILLS AND INTERESTS

Technical Skills: Python**,** R, SQL, MATLAB, Tableau, SAS, Observable JavaScript/D3, AWS, Azure, Apache Spark and Hadoop, Bash, Git, Quarto, Excel, VBA, HTML/CSS
Languages: *Spanish*: Intermediate Proficiency / *Polish*: Beginner Proficiency
Interests: AI/ML, Economics, Sustainability, Marathoning, SCUBA, Snowboarding, Skydiving