David Corcoran

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EDUCATION

Georgetown University, Washington D.C.   Expected Graduation Date: May 2026

Master of Science in Data Science and Analytics

GPA: 3.9

Virginia Polytechnic and State University (Virginia Tech), Blacksburg, Virginia   Graduation Date: May 2022

Bachelor of Science in Business Information Technology - *Computer Decision Support Systems Major*

Bachelor of Science in Finance - *Investment Management and Chartered Financial Analyst Major*

Economics Minor

BIT In-Major GPA: 3.98 | FIN In-Major GPA: 3.58 | Overall GPA: 3.77

WORK EXPERIENCE

Federal Technology Risk Management Associate | *KPMG*   July 2022 – July 2024

- Obtained a DOD issued secret level clearance expiring in 2032
- Assisted in the creation of a strategy document guiding a government agency through segregation of duties (SoD); identity, credentialing, and access management (ICAM); zero-trust; least privilege; emergency access management; and other access control topics
- Wrote and conducted tests of design (ToDs) and tests of effectiveness (ToEs) for IT controls within an SAP environment
- Visited client sites across the United States to walkthrough, document, and test warehouse IT controls and control gaps in support of a government agency's IT system audit readiness goals
- Submitted a corrective action plan downgrade package for a particular IT process, consisting of an end-to-end process document, control gap analysis, posting logic assessment, risk and control matrix, and responsibility-accountability matrix
- Supported the creation of a program governance charter, current-state SoD/ICAM assessment, and Microsoft PowerBI monitoring dashboard to support an enterprise-wide ICAM implementation effort
- Responsible for the maintenance and submission of monthly status reports and bi-weekly activity reports

Programming Counselor / *TIC Summer Camp*   June 2021 – August 2021

- Served as an educator, teaching Scratch 3 and Python programming in Processing 3 to children aged 7-18

PROJECTS

Data-Driven Analysis of Success Factors in the Film Industry, Data Science and Analytics (DSAN 5000)

- Integrated the TMDB and OMDB APIs to collect a dataset of 1700 movies and 23 separate attributes
- Applied clustering techniques (K-Means, DBSCAN, Hierarchical) to identify patterns in genres and financial performance
- Utilized PCA and t-SNE for dimensionality reduction and visualization of high-dimensional movie datasets
- Built and evaluated predictive models (Random Forest, Regression) to forecast movie revenue and Oscar wins, uncovering key drivers of financial success
- Classified movie plots using Naive Bayes and TF-IDF, extracting meaningful insights from text data

Statistical Analysis of Airbnb Listing Prices Across Cities, Probabilistic Modeling and Statistical Computing (DSAN 5100)

- Conducted statistical analysis (t-tests, ANOVAs, correlation, chi-squared) to examine Airbnb listing prices in relation to key factors like location and host status
- Visualized data patterns with ggplot2 and presented actionable insights to optimize pricing strategies for hosts

Analysis of U.S. Airline Operational Performance, Databases and SQL (DSAN 6300)

- Queried flight performance data from the Bureau of Transportation Statistics using SQL to analyze delays and cancellations by airline and airport
- Created a comprehensive report filled with visualizations made in R to assess operational efficiency and identify improvement opportunities in flight scheduling and customer experience
- Identified key factors contributing to delays and cancellations, providing actionable insights for airlines to improve performance

SKILLS

Programming: Python, R, Microsoft Visual Basic for Applications (VBA), VB.NET, SQL, HTML, CSS, PHP, Selenium, Bootstrap

Data Visualization: Microsoft Power BI, Simio, Visual Paradigm, Tableau

Miscellaneous: Microsoft Access, Quarto, Jupyter Notebooks, Github

HONORS

KPMG Culture Catalyst and Mentor   April 2024

KPMG Health Equity Hackathon – 3rd Place   March 2023

Virginia Tech Dean's List (7 Semesters)   Fall 2018 – Spring 2022