

# Bryce Bowles

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## PROFESSIONAL SUMMARY

Analyst Professional with 4 years' analyst experience in various data and technical roles. Aspiring Data Scientist or Machine Learning Engineer. Captivated in descriptive, predictive and prescriptive/decision analyses that enhance and optimize business processes with data driven decision making. Proficient in gathering, wrangling, modeling, visualizing and presenting data using R, Python Jupyter Notebooks, SQL/PostgreSQL, Tableau, MS Power BI, StatTools, PrecisionTree etc. Persistent curiosity, continuous desire to solve problems and excellent communication skills with the ability to build lasting relationships.

## EDUCATION

### Virginia Commonwealth University

Richmond, VA

Masters of Decision Analytics (M.D.A.), GPA: 4.0

January 2019 - December 2021

*Relevant Courses Include:* Advanced Decision Analytics, Statistical Analysis and Modeling, Decision and Risk Analytics, Forecasting Methods, Business Data Analytics, Data Centric Reengineering, Business Policy and Strategy, Analysis and Design of Database Systems, Business Intelligence etc.

### East Carolina University

Greenville, NC

Bachelor of Science in Business Administration (B.S.B.A.), Management

August 2013-May 2017

## RELEVANT SKILLS

- |                    |                      |                          |
|--------------------|----------------------|--------------------------|
| • Machine Learning | • Data Processing    | • Database System Design |
| • Risk Analysis    | • Data Reengineering | • Project Management     |
| • Decision Making  | • Strategic Planning | • System Analysis        |

## RELEVANT ACADEMIC PROJECTS ([Academic Portfolio](#))

### Alchemy Classification and Predictive Modeling Analysis (SCMA 648)

Fall 2020

- Performed segmentation analysis and predictive modeling on insurance broker performance to conclude a random forest model (highest AUC of 73%) predicted whether 2020 Gross Written Premium will increase or decrease from 2019 with a misclassification rate of 35%. Four classification models (classification trees, logistic regression, random forests, and support vector machines) were built, evaluated, and then tuned for prescriptive measures to analyze broker performance. Explored, visualized, and described five groups of brokers using principal component analysis. ([Report file & R](#))

### Federal Reserve Bank Optimization Model (SCMA 645)

Spring 2020

- Won Optimization model class competition issued by Dr. Brooks (M.D.A. department chair and professor). Proposed Python, Pyomo and GLPK network optimization model approach with binary variables and logical constraints to simulate reorganization of 1700 workspaces across 17 floors, while allocating for changing project teams and requirements. Provided report to IT Vice President, Christine Holzem at the Federal Reserve Bank of Richmond. ([Report](#) and [Python file](#))

## WORK EXPERIENCE

### Virginia State Corporation Commission, Bureau of Insurance

Richmond, VA

Insurance Market Examiner

June 2018-Present

*Serve as a Business Systems Analyst Liaison between the Bureau of Insurance (BOI) and Information Technology Division, assisting Automated Systems' Chief*

- Project Lead Business Analyst for the largest agent licensing project (fingerprinting implementation) the BOI has undertaken in over 30 years. Implemented all physical, technical, and administrative security safeguards to meet the requirements of the Virginia State Police, FBI and the system developer/vendor. Presented MS Power BI dashboard, Excel and [PowerPoint](#) to Agent Licensing section to show analytics on demographic report of fingerprint vendor research.
- Specialist in analytics and advanced reports / data extraction via SQL, MS Access/Excel and SAP Crystal

- Administer new System implementation: Facilitate software developers and line of business throughout each project application development cycle such as collect requirements, vendor research/system design, configuration, implementation, quality assurance testing, security roles etc.

**Virginia State Corporation Commission, Bureau of Insurance**
**Richmond, VA**

Associate Insurance Market Examiner

June 2017-June 2018

*Support all computer-based systems and system related projects / processes utilized within the Bureau of Insurance*

- Administer, troubleshoot and improve numerous annual & quarterly system related projects and processes with BOI Staff. Create and implement timelines, train employees, streamline workflows, policies, and procedures.
- Provide helpdesk support for BOI Staff (200+ employees): Maintain expert knowledge of all computer applications / equipment, security access, SharePoint updates, website changes, etc.

**HONORS / CERTIFICATIONS**
**The Honor Society of Phi Kappa Phi**
**Richmond, VA**

Member

November 2021

- The Honor Society of Phi Kappa Phi, the nation's oldest, most selective, and most prestigious all-discipline honor society. Standards for election to Phi Kappa Phi are extremely high. Membership is by invitation only to VCU's top 7.5 percent of second term juniors and the top 10 percent of seniors and graduate students. Virginia Commonwealth University chapter member. ([Certificate Link](#))

**Data Camp**
**(Online)**

Data Scientist Professional Certification (in progress)

- Intermediate Python ([Certificate Link](#))
- Introduction to Python ([Certificate Link](#))
- Introduction to R ([Certificate Link](#))

January 2022

December 2021

February 2021