

## STEVEN BLACK | DATA ANALYTICS & VISUALIZATION PROGRAM MANAGER

### OBJECTIVE:

My name is Steven Black, a self-driven father searching for a career that marries my love of problem-solving with that of learning. Ultimately, I would like to expand my skills and share my enthusiasm with others.

### CONTACT:

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### SKILLS:

Software Development • C# • TypeScript • Python • Bash • Design Patterns • OOP & FP • Clean Code • Git • Visual Studio |  
Data Science • SQL • SQL Server • Pandas • Scikit-Learn • Qlik • Tableau • D3 • Splunk • Hypothesis Testing • ETL • Machine  
Learning • Jupyter Notebooks • SSMS • Azure ML • Descriptive & Predictive Statistics | Cloud • GCP • AWS • Azure | Web •  
Apache • IIS • Security • ES 5-7 • DevTools • Webpack • MVC • npm • React • CSS • Centos • Windows Server

### EXPERIENCE

Feb 2016 -

#### DATA ANALYTICS & VISUALIZATION PROGRAM MANAGER

CARAHSOFT TECHNOLOGY CORP.

- Work with sales teams to identify & solve business problems
- Deployed 32 Monitors across office displaying stats and general information
- Architected and wrote web app to query, cache, and display **BI**.
  - Used **C#** to write service that queries **SQL Server** and caches **Json** files on server
  - **IIS** to host website built with **.Net** and **Entity Framework**
  - **TypeScript**, **Npm**, **Webpack**, **D3**, & custom npm libraries for **data visualizations**
  - **WPF** GUI to control monitors & deploy reports
  - Utilized **Splunk Enterprise** for logging
  - Pioneered software testing at Carahsoft using Chai & Mocha
- Architected **Email Service** to build and send BI to sales teams & directors
  - Multi-threaded C# app pulls templates stored data
  - Pulls data from SQL Server and **MySQL** databases
- Deployed & utilized multiple BI tools including **Qlik**, **Tableau**, & **ZoomData** before ultimately building designing an in-house **BI dashboard** built on web app wrapped in **React**
- Maintains & develops proprietary **CRM**
  - Responded to tickets from users
  - Built and customized WPF dashboards written with in-house framework
  - Deployed web-based data visualizations within CRM using **chromium**
- **Problem Solving Specialist**
  - Solved certificate error causing website to be unreachable from chrome
  - Resident **Excel** expert; VBA functions & database connections for president
  - Introduced Carahsoft to npm & **web frameworks**
  - **ETL** script writer using **Python**, **C#**, and **Bash**
  - Resident **statistician** & SQL expert

Apr 2014 – May 2015 **RESEARCHER, MOLECULAR NEUROSCIENCE**

KRASNOW INSTITUTE FOR ADVANCED STUDY UNDER NADINE KABBANI

- Bench-work; cell culture, proteomics, live cell calcium imaging, & other molecular-biology assays.
- Hypothesis testing, data-analysis, and data-visualization using **Excel**, **R**, and **SPSS**.
  - Cleaned data sets large & small
  - Pioneered parametric testing in the lab
  - Utilized **advanced statistical techniques** including t-test, ANOVA, Kruskal-Wallis, Linear & Multiple Regression, Shapiro-Wilk, & PCA
- Presented poster at Society for Neuroscience “Cytoskeletal motility and structural growth in developing neural cells is driven by  $\alpha 7$ - nicotinic acetylcholine receptor association with G proteins”.

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Feb 2013 – Aug 2013 **RESEARCH ASSISTANT, ECONOMETRICS**

GMU ECONOMICS DEPARTMENT UNDER DRS. DAVE HEBERT AND THOMAS STRATMAN

- Crawled internet for data on timberlands in the northwest United States
- Curated and parsed into .xlsx format for further analysis.
- For research paper investigating the tragedy of the anti-commons.

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Aug 2012 – Dec 2013 **RESEARCHER, COGNITIVE PSYCHOLOGY**

HUMAN FACTORS & APPLIED COGNITION LABS UNDER DRS. MATTHEW PETERSON & ERIC BLUMBERG

- Worked in the Eye-tracking lab but was also trained with EEG and TCDS
- Ran human subjects through a series of tasks, recorded the data, and paid them as necessary.
- Study assessed spatial working memory inhibition via activation of the occipital lobe.

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Feb 2013 – May 2013 **DISNEY COLLEGE PROGRAM**

WALT DISNEY WORLD, ORLANDO FLORIDA

- Operated the world’s most expensive rollercoaster, Expedition Everest, in Disney’s Animal Kingdom.
- Learned from the foremost experts in customer service and have a blast doing so.

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**EDUCATION**

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Apr 2016 – Feb 2017 **DATA SCIENCE PROFESSIONAL CERTIFICATE**

MICROSOFT

- Studied the data science process from problem identification to data-app deployment
- Used Python, **Pandas**, **Scikit-Learn**, **Azure ML**, SQLite, SQL Server, Excel and a variety of data formats

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Apr 2014 – May 2015 **PHD (UNCOMPLETED), NEUROSCIENCE**

GEORGE MASON UNIVERSITY

- GPA 3.82
- Coursework in Advanced Statistics, Ethics, & Biotechnology

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Aug 2009 – April 2014 **B.S ECONOMICS, CONCENTRATION IN MANAGEMENT**

GEORGE MASON UNIVERSITY

- GPA 3.35, GPA in Math & Science: 3.76
- Coursework in Game Theory, Econometrics, Calc II, Discrete Maths, & Statistics II