

# Jay Speidell

## Data Science



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\*My website shows off some cool projects, check it out!

## Education

B.S. Computer Science | Exp. 2020  
Old Dominion University  
Dean's List, 4.0 GPA while working full-time

B.A. English | Virginia Tech

## Skills

Languages:

C, C++, Java, Python

Data Skills:

Data Visualization, Exploratory Data Analysis, Machine Learning, SQL, Statistics

Computer Science Knowledge:

Cloud Computing Environments / High Performance Computing (AWS, GCE), SSH, Jupyter Notebooks, Software Engineering, Unix, Version Control (Git, Github)

Design Tools:

Illustrator, InDesign, Inkscape, LaTeX, OpenSCAD, PhotoShop, Unified Modeling Language

## Work Experience

Since Nov'15

Marketing Manager at Momentum, Inc

Seattle, WA

- Write industry-leading content on financial institution retail and workplace issues.
- Create some of the best looking and clearly written proposals in the industry.
- Analyze the credit union market using Python and Jupyter Notebooks, creating geographic breakdowns and maps to focus business development efforts.
- Led a website redesign project, improving site navigation and boosting engagement.
- Led a CRM and Marketing Automation migration project that resulted in higher engagement and better lead capture and follow-up.

Mar'08-May'15

Special Projects Manager at The Speidell Group

Lynchburg, VA

- Shot and edited photos and videos for clients.
- Created engaging marketing collateral.
- Led the development of an automated estimation and proposal system via a third party developer.

## Projects

Nov'18

Toxic Comment Classification

- Performed a visual analysis on a public database of Wikipedia comments.
- Built a Support Vector Machine model incorporating Naive Bayes feature weights that classifies the toxicity of Wikipedia comments into several categories.
- Wrote a detailed report about my analysis, process, and results.

Jul'18

PySwarms Open Source Contribution

- Added the ability to use Pyplot color gradient, making it easier for researchers to visualize their objective functions.
- Significantly expanded the library of built-in objective functions.
- Collaborated with other developers using GitHub for communication and version control.
- Wrote unit tests to ensure changes would be properly integrated into the project.

Apr'18

Bike Sharing Demand on Kaggle

- Performed a visual statistical analysis of Washington DC's bike share ridership data.
- Built a machine learning model to predict future ridership.

Feb'18

Mercari Price Suggestion Challenge on Kaggle

- Performed exploratory data analysis on the Mercari item pricing data.
- Built an ensembling algorithm that trains models in a sequence, using the output of multiple models as features in an ensemble model.
- Placed in the top 18%.

Mar'17

Super Moon Attack

- Developed a game in Python where you can fly a space ship over the surface of the moon and shoot aliens.