# Jay Speidell

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This is an ATS friendly version of my resume, designed to be read by a machines. If you’re a human, please visit my portfolio website at [jayspeidell.com](http://jayspeidell.com/) or [download my nicely formatted LaTeX resume (PDF)](http://localhost:4000/images/resume/Jay_Speidell.pdf).

# Education

* B.S. in Computer Science, Old Dominion University, 2020
* B.A. in English, Virginia Tech, 2011

# Skills

### Programming Languages

* C (Intermediate, DSA Exercises)
* C++ (High-Intermediate, Medium Sized Projects)
* Java (Intermediate, Larger Projects)
* Python (Advanced, Use Daily, Open Source Contributions)

### Data Skills

* Data Visualization
* Exploratory Data analysis
* Machine Learning
* SQL
* Statistics

### Computer Science Knowledge

* Cloud Computing Environments   
  (AWS, Google Compute Engine)
* Continuous Integration
* Linux
* Software Engineering   
   (Unified Modeling Language)
* Unit Testing   
   (Junit, Pytest)
* Version Control   
  (Git, Github, Gitlab)
* Virtual Environments   
   (Conda, Jypyter)

### Design

* 3D Modeling   
   (OpenSCAD, Python)
* Document Design and Layout   
   (InDesign, LaTeX)
* Photo Editing   
  (GIMP, PhotoShop)
* Vector Graphics   
  (Illustrator, Inkscape)
* Web Design   
  (HTML, CSS, React)

# Work experience

### Marketing Manager @ Momentum, Inc | Nov ‘15 to Present

Seattle, WA

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

### Special Projects Manager @ The Speidell Group | Mar ‘08 to May ‘15

Lynchburg, VA

* Created engaging photo, video, and written content for clients
* Led the development of an automated estimation and proposal system via a third party developer.

### Kindergarten Teacher @ Multiple Private Schools | Jul ‘11 to Mar ‘14

Seoul, South Korea

### Reporter @ The Collegiate Times | May’10 - Jun’11

Blacksburg, VA

# Projects

### 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.
* [Read a report about my analysis, process, and results.](http://localhost:4000/portfolio/project1-toxic-comments/)

### PySwarms Open Source Contribution

* Significantly expanded the library of built-in objective functions.
* Added the ability to use Pyplot color gradient, making it easier for researchers to visualize their objective functions.
* Collaborated with other developers using GitHub for communication and version control.
* Wrote unit tests to ensure contributions would be properly integrated into the project.
* [Read a report about my work on the project.](http://localhost:4000/portfolio/project2-pyswarms/)

### 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\%
* [View my project notebook on kaggle.com](https://www.kaggle.com/jayspeidell/predictions-as-features)

### 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.
* [View my project notebook on kaggle.com](https://www.kaggle.com/jayspeidell/visualizing-and-modeling-dc-bikeshare-ridership)

### Super Moon Attack

* Developed a game in Python where you can fly a space ship over the surface of the moon and shoot aliens.
* [View the project repository on GitHub](https://github.com/jayspeidell/super-moon-attack)