

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 (AWS, GCE), Computer Architecture, Data Structures and Algorithms, Inserting USB Correctly On the First Try, Jupyter Notebooks, Software Engineering, Unix, Version Control (Git, Github)

Design Tools:

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

On the Side

3D Printed Trail Maps:

I design and 3D print topographical maps with trail overlays.

Volunteer at Evergreen Mountain Bike Association:

I helped build and maintain mountain bike trails at Tiger Mountain, Duthie Hill, Black Diamond Open Space, and other Washington trail systems.

Work Experience

- Since Nov'15 Sales & Marketing Coordinator at Momentum, Inc Seattle, WA
- Wrote industry-leading content on financial institution retail and workplace issues.
 - Created some of the best proposals in the industry.
 - Analyzed 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.
 - 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
- Created engaging photo and video content for clients, as well as marketing collateral.
- Jul'11-Mar'14 Kindergarten Teacher Seoul, South Korea
- May'10-Jun'11 Reporter at The Collegiate Times Blacksburg, VA

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. Read it on my website!
- Jul'18 PySwarms Open Source Contribution
- Added visualization features including Pyplot color gradient selection, 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.
 - Read more on my website!
- 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.