

Peter B. Umland

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Education

Bachelor of Science in Computational Modeling & Data Analytics, December 2018 • Virginia Tech – Blacksburg, VA

- GPA: 3.50 (3.66 in-major)
 - Minors: Computer Science, Green Engineering
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Skills

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| • R, Python and Matlab | • Automated BI reporting | • Machine learning |
| • SQL database management | • Data visualization (high-D) | • Flask web development |
| • AWS EC2, S3; boto3 (Python) | • Linear & multiple regression | • Parallel computing |
| • Apache Spark, PySpark | • Confidence & prediction intervals | • Pivot tables |
| • Data wrangling/cleaning | • Enterprise Resource Planning | |
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Experience

Data Engineer

Sep 2019 – Mar 2020

Virginia Tech, Office of Analytics & Institutional Effectiveness – Blacksburg, VA

- *Office within Virginia Tech providing data insight throughout the university, and handles government reporting.*
- Worked with a group to recreate and improve the backend of the data pipeline for our web applications.
- Converted SAS scripts into Python scripts utilizing Apache Spark to improve efficiency.

Cloud Operation Analyst

Jan 2019 – Aug 2019

SAP NS2 – Herndon, VA

- *SAP subsidiary providing software solutions to entities of the United States government.*
- Wrote and maintained scripts to automate data pipelines and streamline the analytics of cloud assets
- Utilized AWS, Azure, Akamai, and CloudCheckr APIs to pull various data
- Created dashboards for executive, financial, and operation management audiences

Data Science Engineer I (Intern)

Jun 2018 – Aug 2018

Altamira Technologies – McLean, VA

- *Technology company offering end-to-end analytic and engineering solutions.*
- Wrote Python scripts to populate a MySQL database and modified schema to better match design intent
- Performed data decomposition and normalization to extract and engineer features
- Applied machine learning algorithm, Random Forest, to train models and detect malicious cyber content

Data Analyst Intern

Jun 2017 – Aug 2017

Darn Tough – Northfield, VT

- *Hosiery company manufacturing high-quality socks with lifetime warranties.*
 - Analyzed production data for patterns that could predict poor knitting performance and test hypotheses
 - Wrote backend framework to sync reports with database; outlined the front end with an interactive UI
 - Predictive analytics of warranty data and sales projections, which aided managerial decision making
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Additional Qualifications

- Applied statistical theory (e.g. linear and multiple regression, probability, hypothesis testing and ANOVA)
- Languages: Python (4 years); Matlab (3 years); SQL, Java, R/R markdown, C (2 years); HTML, C++, Android (1 year); JavaScript, CSS (< 1 year)
- Windows, Mac, Linux, AWS (EC2, S3), Git, Atlassian Agile Processes (Jira/Confluence/BitBucket), Microsoft Office, Business Intelligence (BI) reporting, IQMS (ERP system)