SEAN HELM

seanhelm.com | seanmdhelm@gmail.com | github.com/seanhelm | linkedin.com/in/seanhelm

EXPERIENCE —	
Capital One Data/Software Engineer	Sep 2018 -
 Architected a caching solution in Java/Spring for a big data platform to a Lowered operational costs by enabling lifecycle management for the under Captured clickstream data with React.js and relayed to Amazon Redshift Built out infrastructure with Jenkins and Terraform to automate deployment 	rlying cache using Python and AWS Lambda. for user workflow analysis.
Alarm.com Software Engineering Intern	Jun 2017 – Aug 2017
 Optimized home automation testing by implementing a Windows service in Leveraged Ember.js to provide a user interface for the distributed testing Created a REST API with ASP.NET Web API to expose the distributed 	service and to display real-time testing results.
Alarm.com	Jun 2016 – Aug 2016
Software Engineering Intern	
 Automated a tedious process by building an API in C# to efficiently upd Implemented a caching system for account information to speed up the de Developed a responsive, customer-facing tool to allow home owners to sea 	ealer site page load speed by $40-60\%$.
Sure Secure Solutions	Aug 2014 – Aug 2015
Software Engineering Intern	
 Updated a static archive to a secure and dynamic web portal in PHP for Redesigned the company website using HTML/CSS and JavaScript to ma 	~
— EDUCATION —	
George Mason University	May 2018
Bachelor of Science in Computer Science; Major GPA: 3.38.	

- Applied XGBoost machine learning algorithm in Python to classify music genres using features extracted with LibROSA.
- Utilized Matplotlib to produce visualizations of various performance metrics to help improve the classification model.

Reddit Sentiment Analysis

- Filtered negative Reddit comments in real-time into MongoDB using TextBlob sentiment analysis.
- Created a user-friendly web application using Node.js, Express, and Vue.js to review newly extracted comments.

Toxic Mushroom Deep Dive

- Compared Scikit-learn machine learning algorithms in Python for predicting whether mushrooms were toxic or edible.

CERTIFICATIONS

Certified Solutions Architect, Associate

Dec 2018