SEAN HELM

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EXPERIENCE	
Capital One Data/Software Engineer Sep 201	8 -
 Architected a caching solution in Java/Spring for a big data platform to reduce latency for recently run Snowflake queri Lowered operational costs by enabling lifecycle management for the underlying cache using Python and AWS Lambda. Captured clickstream data with React.js and relayed to Amazon Redshift for user workflow analysis. Built out infrastructure with Jenkins and Terraform to automate deployment of AWS resources for the cache microservi 	
Alarm.com Jun 2017 – Aug 20	017
Software Engineering Intern	
 Optimized home automation testing by implementing a Windows service in C# for allocating device tests to available serv Leveraged Ember.js to provide a user interface for the distributed testing service and to display real-time testing results Created a REST API with ASP.NET Web API to expose the distributed testing service to the client. 	
Alarm.com Software Engineering Intern	016
 Automated a tedious process by building an API in C# to efficiently update branding information on security panels. Implemented a caching system for account information to speed up the dealer site page load speed by 40-60%. Developed a responsive, customer-facing tool to allow home owners to search for and verify local home security dealers. 	
Sure Secure Solutions Aug 2014 – Aug 2014	015
Software Engineering Intern	
 Updated a static archive to a secure and dynamic web portal in PHP for easy maintainability. Redesigned the company website using HTML/CSS and JavaScript to make web pages robust and responsive. 	
EDUCATION —	
George Mason University May 2	018
Bachelor of Science in Computer Science; Major GPA: 3.38.	010
PROJECTS	
Music Cours Chasification with Condicat Boosting	
Music Genre Classification with Gradient Boosting - 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.	1 .
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.	
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Certified Solutions Architect, Associate

Dec 2018