Dillon Stock

Software Engineer

Experienced in Object-Oriented programming and design; proficient in C++ and Python. My strengths include excellent written and verbal communication skills, and an eagerness to learn and apply new skills. I am seeking a technically challenging role as a software engineer which will allow me to develop a highly marketable skill set while becoming familiar with industry standards and best practices.

Experience

Jan 2018 - present

Michigan State University Capstone

Amazon Marketplace Podcast Earnings Detection

- Developed an application which offers podcast producers an additional source of revenue, by providing Amazon Affiliate links for products related to their content
- Utilized AWS SDK for Python (Boto3) to interact with and manage AWS services such as S3, Comprehend, and Transcribe
- Built deployment packages for AWS Lambda functions, and configured various triggers including API Gateway, CloudWatch events, and S3 bucket file uploads
- Serialized and formatted Amazon product data as JSON strings and posted to Django REST API for easy front-end consumption

May 2017 - Oct 2017

Consumers Energy

IT Intern - Compliance

- Led weekly status update meetings for our team, concisely detailing the progress made for each ongoing task
- Researched Windows PowerShell scripting, and applied this research to automate a previously manual process
- Used lightweight directory access protocol (LDAP) in PowerShell to efficiently query Active Directory
- Wrote a script to send out 400+ emails, each containing a custom report, thus saving time and reducing error
- Prepared and delivered a formal presentation detailing my internship experience

Education

May 2015 - May 2018

Michigan State University, B.S. in Computer Science,

GPA: 3.46/4.0   **Expected Graduation Date**: May 2018

Software Design

- Worked among a team of 5 to collaboratively build an application within Visual Studio using Git repository for source control
- Used Visual Paradigm as a design tool for building the UML class diagram representing our game system

Machine Learning

- Applied linear algebra concepts within Python
- Studied modelling techniques including decision trees, linear regression, and support vector machine

Data Analytics

- Worked with NLTK library to perform sentiment analysis on tweets collected using Twitter streaming API
- Processed CSV and JSON files using Pandas data analysis library

Algorithm Engineering

- Applied dynamic programming to efficiently solve complex problems such as calculating the Levenshtein distance between two strings
- Implemented greedy algorithms to solve knapsack and graph traversal problems, and optimized them using pruning and trimming techniques

Personal Info

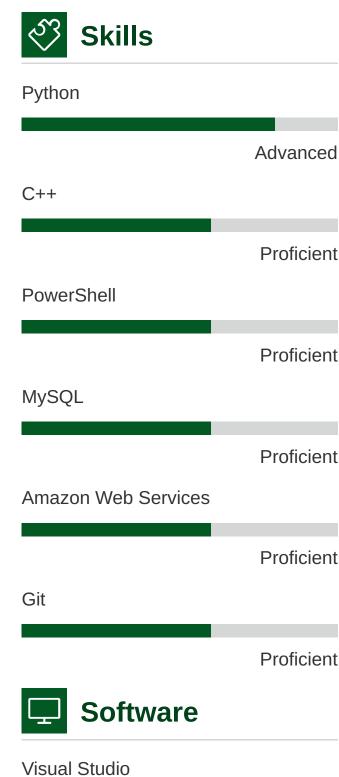**Address**
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LinkedIn
https://www.linkedin.com/in/dillon-stock-933b44160/

Skills

Python
Advanced

C++
Proficient

PowerShell
Proficient

MySQL
Proficient

Amazon Web Services
Proficient

Git
Proficient

Software

Visual Studio
Proficient

Jupyter Notebook
Proficient

Visual Paradigm
Proficient