

# 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	<div><b>Michigan State University Capstone</b> <i>Amazon Marketplace Podcast Earnings Detection</i><ul style="list-style-type: none"><li>Developed an application which offers podcast producers an additional source of revenue, by providing Amazon Affiliate links for products related to their content</li><li>Utilized AWS SDK for Python (Boto3) to interact with and manage AWS services such as S3, Comprehend, and Transcribe</li><li>Built deployment packages for AWS Lambda functions, and configured various triggers including API Gateway, CloudWatch events, and S3 bucket file uploads</li><li>Serialized and formatted Amazon product data as JSON strings and posted to Django REST API for easy front-end consumption</li></ul></div>
May 2017 - Oct 2017	<div><b>Consumers Energy</b> <i>IT Intern - Compliance</i><ul style="list-style-type: none"><li>Led weekly status update meetings for our team, concisely detailing the progress made for each ongoing task</li><li>Researched Windows PowerShell scripting, and applied this research to automate a previously manual process</li><li>Used lightweight directory access protocol (LDAP) in PowerShell to efficiently query Active Directory</li><li>Wrote a script to send out 400+ emails, each containing a custom report, thus saving time and reducing error</li><li>Prepared and delivered a formal presentation detailing my internship experience</li></ul></div>



### Education

May 2015 - May 2018	<div><b>Michigan State University, B.S. in Computer Science,</b> <b>GPA: 3.52/4.0</b> <b>Software Design</b><ul style="list-style-type: none"><li>Worked among a team of 5 to collaboratively build an application within Visual Studio using Git repository for source control</li><li>Used Visual Paradigm as a design tool for building the UML class diagram representing our game system</li></ul><b>Machine Learning</b><ul style="list-style-type: none"><li>Applied linear algebra concepts within Python</li><li>Studied modelling techniques including decision trees, linear regression, and support vector machine</li></ul><b>Data Analytics</b><ul style="list-style-type: none"><li>Worked with NLTK library to perform sentiment analysis on tweets collected using Twitter streaming API</li><li>Processed CSV and JSON files using Pandas data analysis library</li></ul><b>Algorithm Engineering</b><ul style="list-style-type: none"><li>Applied dynamic programming to efficiently solve complex problems such as calculating the Levenshtein distance between two strings</li><li>Implemented greedy algorithms to solve knapsack and graph traversal problems, and optimized them using pruning and trimming techniques</li></ul></div>
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### Personal Info

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### Skills

Python	<div><div></div></div> Advanced
C++	<div><div></div></div> Proficient
PowerShell	<div><div></div></div> Proficient
MySQL	<div><div></div></div> Proficient
Amazon Web Services	<div><div></div></div> Proficient
Git	<div><div></div></div> Proficient



### Software

Visual Studio	<div><div></div></div> Proficient
Jupyter Notebook	<div><div></div></div> Proficient
Visual Paradigm	<div><div></div></div> Proficient