DANIEL HU

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EDUCATION

Purdue University

M.S. in Computer Science

B.S. in Computer Science (GPA: 3.66)

West Lafayette, Indiana August 2019-May 2021 August 2016-May 2020

WORK EXPERIENCE

Capital One

Software Engineering Intern

Richmond, Virginia

June-August 2019

- · Utilized the PySpark framework to create a matching algorithm to identify potential Capital One customers affected when an external third party data breach occurs.
- · Built a contained environment using a variety of AWS services (Lambda, Elastic MapReduce, and S3) to execute the matching of data provided by the external third party (i.e. Equifax) against internal tokenized customer data.
- · Reduced data and security vulnerabilities by removing the need for a human to examine sensitive PII.

CME Group (Chicago Mercantile Exchange)

Software Engineering Intern

Chicago, Illinois May-August 2018

- · Leveraged the Moto/Boto3 and Pytest frameworks to create a substantial unit test suite to validate CME's Cloud Custodian (open source rules engine for AWS fleet management) policies.
- · Implemented new functionality of the CME automation framework in Python to integrate with the Cloudbolt (a hybrid cloud management platform) API to provide a uniform mechanism for automatic provisioning of servers in an on-premise environment.

Purdue University

Undergraduate Teaching Assistant (Digital Literacy)

West Lafayette, Indiana January-May 2019

- · This course is a comprehensive introduction to the digital world, providing a high level overview to technologies such as computers, the internet, the cloud, etc. It concentrates on how computing affects students' lives.
- · Created and graded homework assignments and exam questions for students.
- · Held office hours to help students understand difficult course material.

PROJECTS

Room Occupancy

December 2018

https://github.com/dhu5432/RoomOccupancy

- · Given a dataset with features such as humidity, temperature, light, etc. we want to be able to predict whether or not a given office room is occupied.
- · Used a variety of machine learning algorithms such as Linear Perceptron, Support Vector Machines, etc. to achieve 98%+ accuracy in Python.

GitStarter April 2018

https://github.com/dhu5432/GitStarter

- · A web application that allows users to "invest" in open source projects on GitHub.
- · Utilizes the GitHub API to change the investment value of a project based on level of activity (number of commits, insertions, etc.)

TECHNICAL STRENGTHS

Programming
Tools & Frameworks

Java, Python, C, and C++

Git, Jenkins, AWS (EMR, Lambda, and S3), Spark