JORDAN LEE

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Software Engineer

Education

2019-2020
GPA: 3.51/4

CORNELL UNIVERSITY — **New York, NY**

Master of Engineering in Computer Science, May 2020
Honors: Cornell Tech Merit Scholarship
Courses: Deep Learning, Computer Vision, Distributed Systems, Blockchains, Algorithms & Data Structures, Applied Machine Learning, Optimization Methods

2010-2014
GPA: 3.31/4

US COAST GUARD ACADEMY — **New London, CT**

Bachelor of Science, Electrical Engineering with Honors
Capstone research: Security Enhanced Vessel Automatic Identification System

Relevant Coursework

Machine Learning for Trading, Knowledge-based Artificial Intelligence, Databases, Discrete Mathematics, Network Security, Computer Networks, Probability Theory, Software Design

Skills

Languages: JavaScript HTML/CSS, Python, Java, C/C++ *Frameworks:* React, React-Native, Django, Spring *Technologies*: sklearn, PostgreSQL, Git, Clubhouse, Jenkins, Jupyter notebooks

Experience

Summer 2019

CUBIC TERALOGICS - *Software Engineer* — **Ashburn, VA**

- Implemented auto-upgrade verification functionality using GPG for RedHat Image
- Implemented Grunt.js scripts and Jenkins for CI/CD pipeline, automated system build process, streamlined application delivery to customers
- Implemented REST APIs using Express and Node.js
- Refactored Unified Video to use async/await, refactored feed metadata handling
- Developed and maintained Mocha.js tests to improve API testing coverage to 99%.

Projects

Spring 2020

Cornell Tech Start-Up Studio: Cashier-less Checkout Solutions — **New York, NY**

Building a React-Native app that allows grocery store customers to scan items and pay for them without having to stand in a checkout-line. It uses TensorFlow.js Mobilenet model image features and a custom Keras model hosted on AWS to perform inference on an image of the item and adds it to the user's cart.

Fall 2019

Cornell Tech Product Studio – Comcast NBC Universal — **New York, NY**

Built a React-Native app that leverages images of an individual over time to detect underlying health concerns. The app captures selfies and sends them to an AWS Sagemaker convolutional neural network for inference and displays results to the user.

Fall 2019

Multi-layer Perceptron Powered Image Search Engine (Python) — **New York, NY**

Built an image search engine using Keras multilayer perceptron model that mapped natural language queries to images stored in memory. Preprocessing steps included PCA and feature extraction using Bag-of-words for queries and ResNet101 fc-2048 embedding for images.

Fall 2018

Portfolio Optimization Application using Machine Learning (Python) — **Arlington, VA**

Implemented a Random Forest with Bootstrap Aggregation and Q-reinforcement learner to correctly classify trade opportunities, improved simulated return vs SP500 by 10% implemented with Numpy, Pandas, Matplotlib and Sklearn

Summer 2018

Resolution-ITS Application • Full Stack Application • Spring/Java — **Arlington, VA**

Built an IT helpdesk application that implements authentication and allows users to submit IT helpdesk tickets, view ticket status and track work progress. Data stored using PostgreSQL. Frontend built using Vaadin UI (hosted database using AWS RDS)

Additional

2017-2019
GPA: 3.71/4

Georgia Institute of Technology

Completed 7 courses at Georgia Institute of Technology Online MS Computer Science

Publications

J. Hall, J. Lee, J. Benin, C. Armstrong and H. Owen, "IEEE 1609 Influenced Automatic Identification System (AIS)," 2015 IEEE 81st Vehicular Technology Conference (VTC Spring), Glasgow, 2015, pp. 1-5. doi: 10.1109/VTCSpring.2015.7145867 — **New London, CT**