JORDAN LEE

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Education

CORNELL TECH AT CORNELL UNIVERSITY — **New York, NY**

2019-2020 Master of Engineering in Computer Science, May 2020
Honors: Cornell Tech Merit Scholarship

Relevant Coursework: Algorithms & Data Structures, Applied Machine Learning, Optimization Methods, Deep Learning Clinic, Machine Learning for Trading, Knowledge-based Artificial Intelligence, Databases, Discrete Mathematics, Network Security, Computer Networks, Probability Theory, Software Design

2010-2014 **US COAST GUARD ACADEMY** — **New London, CT**
Bachelor of Science, Electrical Engineering, May 2014 with Honors
Capstone research: IEEE 1609 influenced Automatic Identification System

Skills

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

Experience

CUBIC TERALOGICS — **Ashburn, VA**

Summer 2019 ***Software Engineer***

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

Projects

Current **Cornell Tech Product Studio – Comcast NBC Universal**
Leveraging images of an individual over time to detect underlying health concerns
Building a React-Native app using Expo that captures selfies and sends them to a Firebase instance for classification using convolutional neural network and returns results to the user. –in progress

Spring 2019 **Robot Lawnmower Application • Full Stack Application • React-Java**
Reads in lawn data with static and dynamic objects from CSV and uses Breadth First Search and Depth First Search to find the optimal way to cut the grass and avoid objects.

Fall 2018 **Raven's Progressive Matrices – Knowledge-based Artificial Intelligence Agent**
Created an AI agent that uses computer vision, case-based reasoning and sematic networks to solve 70% of the Raven's Progressive Matrices testing set, implemented with Pillow, NumPy, and Pandas

Fall 2018 **Portfolio Optimization Application using Machine Learning**
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 and Pandas

Summer 2018 **Resolution-ITS Application • Full Stack Application • Spring/Java**
IT helpdesk application 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

US COAST GUARD — **Alexandria, VA**

2017-2019 ***IT Systems Project Manager***
Telecommunication and Information Systems Command project officer, executed IT systems acquisitions, network security and research and development on behalf of US Gov't

2017-2019 **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