JORDAN LEE

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Education

CORNELL UNIVERSITY — **New York, NY**

2019-2020 Master of Engineering in Computer Science, May 2020
Honors: Cornell Tech Merit Scholarship
Courses: Algorithms & Data Structures, Applied Machine Learning, Optimization Methods

2010-2014 **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

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
- 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

Fall 2019 **Cornell Tech Product Studio – Comcast NBC Universal**
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.

Spring 2019 **Robot Lawnmower Application • Full Stack Application • React-Java**
Web app that reads data from CSV and uses Breadth First Search and Depth First Search to find the optimal way to cut the grass and avoid dynamic objects. Displays user-controlled simulation

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**
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 **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