

# JOHN GUO

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## EDUCATION

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**Cornell University**, Ithaca, NY

Expected May 2024

Bachelor of Science, Computer Science. Dyson Business Minor for Engineers

## EXPERIENCE

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**Lockheed Martin** Owego, NY

June 2022-Present

*College Student Tech Senior*

Produced model to predict supplier lead times and training pipeline for future use

- Used Python, Sklearn, and Seaborn
- Worked with stakeholders to better understand data
- Encoded multi-modal data to consistent numerical representation
- Experimented with various models and hyper-parameters to improve model accuracy in addition to various encoding methods
- Checked statistical relationships in data to prevent over-fitting

Helped guide new intern working on related supplier lead time project

- Recommended practices for organizing project files
- Suggested potential models to explore

**Lockheed Martin** Owego, NY

June-Aug. 2021

*College Student Tech*

Migrated and modernized supply management app to web app which improved performance and maintainability

- Used .NET with Angular frontend, deployed app using OpenShift
- Centralized web app made the program more maintainable than legacy Microsoft Access app
- Improved user experience using material design

Created machine learning system for document scanning

- Made program and deployed web app using Domino Data Lab
- System's purpose is to determine whether a given document contains classified data and the pages on which data occurs

**Lockheed Martin** Owego, NY

June-Aug. 2020

*College Student Tech*

Created web app to replace existing information entry desktop app

- Developed .NET web app and deployed it using PCF

**Lockheed Martin** Owego, NY

June-Aug. 2019

*Highschool Student Tech*

Created web app to replace existing desktop app

- Used .NET to create the application

Improved script from previous internship to support more features

- PowerShell script synchronizes information about EC2 instances between SharePoint and AWS
- Automation improved productivity and accuracy by reducing amount of repetitive work

**Lockheed Martin** Owego, NY

June-Aug. 2018

*Highschool Student Tech*

Made visualization of network performance to aid in identification of congestion

- Imported and visualized data using Tableau
- Live updates regarding network performance in various regions across the United States helped identify issues faster

Implemented script to sync server tags

- Used PowerShell to ensure tag information about EC2 instances are consistent between SharePoint and AWS

## PROJECTS

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### Paragraph Rater Model

July 2021

*Tensorflow, Huggingface, Python*

Created model that rates given paragraph in comparison to classic novels

- Gathered and processed data from various classic novels such as Sherlock Holmes
- Experimented with various models and classification layers to improve model performance and inference speed

### Sentence Similarity Model

June 2021

*Tensorflow, Huggingface Transformers, Python*

Trained model to rate semantic similarity of two given sentences

- Able to be quickly loaded, and consumes less than 1GB of memory
- Intended to become component of general intent classification system

### MNIST GAN

April 2021

*Tensorflow, Python*

Made model that learned how to draw handwritten numbers

- Implemented custom deep CNN in Tensorflow

## SKILLS

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- Programming Languages: Python, Java, C#, Javascript, Typescript
- Tools and Skills: Tensorflow, Domino Data Lab, .NET Core, Flask, HTML