Jackie Cho

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WORK EXPERIENCE

NASA - MSFC Software Engineer Intern, 5/2020 - Present

> Develop a Machine Learning model, with **Keras** and **TensorFlow**, to detect faults for flight software testing.
> Automat feature extraction and data preprocessing with **Python** and **Pandas**, reducing data cleaning time by 90%.

NASA - KSC Software Engineer Intern, 1/2020 – 5/2020

> Developed a WPF app with **C#**, **.NET**, and **SQL**, improving visualization of 100+ assets.
> Automated output logging for flight simulation results with **Django** and **Jinja2**.
> Assisted in designing software requirements for the commercial crew data interfaces.

NASA – JSC Software Engineer Intern, 5/2019 – 8/2019

> Developed **C/C++** simulation software for a microcontroller in the xEMU spacesuit.
> Developed a tone generator in **C** for the xEMU Radio that alerts astronauts of any faults detected.
> Developed unit/integration tests with **CppUnit** for a Class A safety-critical software.

NASA – JSC Software Engineer Intern, 1/2019 – 5/2019

> Developed a **Recurrent Neural Network** with **LSTM** units in **MATLAB** to classify cognitive performance with 96% accuracy.
> Automated data extraction with **MongoDB** and **TCP/IP**, reducing preprocessing time by 20%.

NASA - JSC Software Engineer Intern, 8/2018 – 10/2018

> Developed a Wiki extension with **D3.js**, **Docker**, **PHP**, and **JavaScript**, improving navigation/visualization of 60,000+ nodes.
> Perform **TDD** with **Mocha** and **Chai** with 100% code coverage.
> **ETL** data using **Python** and cronjobs, reducing preprocessing time by 30%.

NOVO Consulting LLC Software Engineer Intern, 6/2018 – 8/2018

> Developed a web application that automates games & surveys with **ReactJS**, **PostgreSQL**, and **Node.JS** using **Agile** methodology, reducing time by 80%.

New York University Software Engineer Intern, 1/2018 – 6/2018

> Designed full-stack web applications that manage housing applications and event schedules for RAs.
> Improved **UI/UX** with **HTML5/CSS3**, **JavaScript**, and **AJAX**.

EDUCATION

New York University
May 2021
BA Computer Science & Mathematics

GPA: 3.63
Dean's Honors List

SKILLS

Languages:
Experienced - Python, C#, HTML5/CSS3 , SQL
Intermediate - JavaScript, C/C++, Java

Technologies:
Keras, TensorFlow, Scikit-Learn, ReactJS, jQuery, Django, Node.js, MySQL, Git, PostgreSQL, Docker, Visual Studio

PROJECTS

Windows Malware

Malware disguised as an image with keylogger and backdoor, that injects into Windows registry to boot automatically upon startup. Built with C, Kali Linux, and VMWare.

Today's

Web application that displays user's local time, location, weather, and a responsive to-do list. Built with Weather API, JavaScript, and HTML5/CSS3.