

Jackie Cho

🏠 jackiewcho.com

✉ wjc368@nyu.edu

🔗 jcho124

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WORK EXPERIENCE

Software Engineer Intern **NASA Kennedy Space Center** Jan. 2020 – Present

- Develop a WPF app with **C#**, **.NET**, and **SQL** for asset management and visualization of 100+ emulators, reducing operators' performance time by 90%.
- Design a remote management access to Cisco network switches with **Ansible** and **CLI**.
- Develop a flight sim result logger with **Django**, and **Jinja2**, reducing time by 100%.
- Design software requirements for the Gateway sim and Lockheed Martin Orion emulator.

Software Engineer Intern **NASA Johnson Space Center** May 2019 – Aug. 2019

- Developed **C/C++** flight sim software for a microcontroller in the xEMU spacesuit, allowing testing of the Caution and Warning System without hardware.
- Developed a tone generator for the xEMU Radio that alerts astronauts during EVAs.
- Performed unit/integration tests with **CppUnit** for a Class A Safety-Critical software.

Software Engineer Intern **NASA Johnson Space Center** Jan. 2019 – May 2019

- Developed a **Recurrent Neural Network** with **LSTM** units in **MATLAB** to classify person's physical/cognitive state with 96% accuracy.
- Automated data extraction with **MongoDB** and **TCP/IP**, reducing preprocessing time by 20%.
- Performed feature extractions and sensitivity analysis, improving accuracy by 17%.
- Developed a Visual Evoked Potential Based Brain-Computer Interface using **Keras**.

Software Engineer Intern **NASA Johnson Space Center** Aug. 2018 – Dec. 2018

- Developed a big data visualization of NASA Wiki with **D3.js**, **Docker**, and **JavaScript**, improving navigation of 60,000+ pages/links.
- Perform **TDD** with **Mocha** and **Chai**, building unit tests to ensure 100% code coverage.
- **ETL** data from **MySQL** using **Python** and **cronjobs**, decreasing preprocessing time by 30%.

Software Engineer Intern **NOVO Consulting LLC.** Jun. 2018 – Aug. 2018

- Developed a full-stack web application, with **ReactJS**, **PostgreSQL**, and **Node.JS**, that automates games & surveys, decreasing time consumption by 40%.
- Lead **Agile** project while efficiently communicating with non-technical clients/users.

Software Engineer Intern **New York University** Jan. 2018 – Jun. 2018

- Designed full-stack web applications that manage housing applications for students.
- Improved **UI/UX** with **HTML5/CSS3**, **Sass**, **JavaScript**, and **AJAX** using **MVVM** architecture.

IT Specialist Intern **Severance Hospital** May 2017 – Jun. 2017

- Assisted with computer configuration, troubleshooting software and network issues.
- Updated computers to latest Windows operating systems using **SCSM**.

EDUCATION

New York University '21 *B.A. Computer Science/Mathematics* 3.63, Dean's Honors List

SKILLS

Languages:

Experienced: Python, SQL, C#,
HTML5/CSS3, JavaScript, MATLAB
Intermediate: C, Java, C++, PHP

Library/Frameworks:

Keras, Scikit-Learn, ReactJS, jQuery,
Django, Node.js, Mocha, Chai, D3.js, ASP.NET, AJAX, Sass
Databases: AWS, MongoDB, PostgreSQL, MySQL, NoSQL
Tools/Other: Docker, Ansible, Git, Unity, Visual Studio