

# Jackie Cho

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in jackiewcho

## WORK EXPERIENCE

**Data Science / Software Engineer Intern** Jan. 2019 – Present | Houston, TX  
NASA Johnson Space Center – Spacecraft Software Engineering Branch (ER6)

- Develop Artificial Neural Network algorithms to determine a person's physical and mental state using physiological data with MATLAB, Keras, and TensorFlow.
- Identify biometric sensors, conduct testing of the sensors, make recommendations on their overall applicability in the applications.
- Support development of middleware solutions that integrate the biometric sensors, A.I./Deep Learning algorithms, into the rest of the system.

**Data Science / Software Engineer Intern** Aug. 2018 – Dec. 2018 | Houston, TX  
NASA Johnson Space Center – Center Operations Directorate (JA)

- Lead a large data visualization project of NASA Wikis, improving navigation of over 100,000 pages/links and creating a foundation for future NASA projects.
- Scraped data from a Docker container using custom API, SQL, PHP, and Python to create various D3.js graphs, while designing UI/UX features in JavaScript.
- Developed a full-stack application deployed as a Wiki extension to directly preprocess JSON data from MySQL back-end server using Python and Crontab.
- Tested an Automatic Machine Learning UI, H2O.ai's Flow, by converting Jupyter Notebook to Flow and identifying its benefits and potential users.

**Software Engineer Intern** Jun. 2018 – Aug. 2018 | New York, NY  
NOVO Consulting LLC.

- Developed a full-stack, multi-page web application that automates games and surveys previously done manually by the company.
- Implemented ReactJS to improve workflow in front-end, built back-end queries with PostgreSQL, and deployed on Amazon Web Services.
- Self-managed the project and learned the necessary tools/framework on the job while efficiently communicating with a non-technical supervisor.

**Software Engineer Intern** Jan. 2018 – Jun. 2018 | New York, NY  
NYU Office of Residential Life & Housing Services

- Designed full-stack web applications for campus-wide use that manage housing applications, support center, and forum.
- Improved UI/UX with HTML5, CSS, JavaScript, and Bootstrap, while implementing an accessible, mobile-friendly design.
- Compiled and deployed with ASP.NET and AWS, while working with a team of developers and managing workflow with Git.

**IT Specialist Intern** Summer 2017 | Seoul, South Korea  
Severance Hospital of Yonsei University

- Organized and analyzed administrative data and daily anesthesia units using Excel in the post-anesthesia care unit.
- Assisted with computer configuration, troubleshooting software and network connectivity issues. Updated office computers to latest Windows operating systems using SCSM.

## PERSONAL PROJECTS

**Today's Web Application** Nov. 2017

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

**Zombie Island Escape 3D Unity Game** Ongoing

3D first-person shooter game where player must escape a zombie infested island under given time, built in C# and Unity.

## EDUCATION

**New York University**

2016–2020

B.A., Computer Science,  
Mathematics

3.72 GPA, Dean's Honors List

**Relevant Courses:** Data Structure, Intro to Computer Science, Intro to Programming, Linear Algebra, Discrete Math, Calculus I, II & III

## SKILLS

### Languages:

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

**Library/Frameworks:** Keras, TensorFlow, Pandas, Scikit-Learn, NumPy, ReactJS, jQuery, Bootstrap, Django, Unity, Node.js, D3.js, Three.js, ASP.NET MVC, p5.js

**Databases:** AWS, PostgreSQL, SQLite, MySQL, MariaDB

**Tools/OS:** Docker, Git, Jupyter Notebook, Octave, H2O.ai, Logger Pro, Arduino, MediaWiki, Visual Studio, UNIX, MacOS, Windows, Microsoft

## EXTRACURRICULARS

**Medical Dialogue Review Writer**

Published a research article on the ethical issues of certain cancer screening practices.  
([www.mdrnyu.org/publications/](http://www.mdrnyu.org/publications/) Volume 11, Issue 1).

**WinC (Women in Computing) Mentee**

Meet with mentor biweekly, discussing new opportunities in STEM. Attend weekly workshops to practice coding, and conferences to network.