

Jackie Cho

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in jackiewcho

Education

New York University | *B.A Computer Science & Mathematics*

May 2021 | GPA: 3.65

Honors Scholar

Work Experience

NASA MSFC | *Software Engineer Co-op*

May 2020 – Aug 2020 | Huntsville, AL

- > Automated verification of +10k flight software test cases using deep learning models, improving fault detection of +75k signals by 60%.
- > Developed a REST API to streamline data directly from NASA database to optimize model training and testing, reducing time and local memory usage.
- > Developed internal tools in Python to parse data from Word files, improving workflow by 80%.

NASA KSC | *Software Engineer Co-op*

Jan 2020 – May 2020 | FL

- > Developed a WPF app in C# and SQL to automate management and scheduling of +100 assets.
- > Implemented touch-controls and designed UI/UX with custom tool tips using .NET.
- > Automated recording of flight software simulation results with Django and Jinja2, improving developers' workflow by 95%.

NASA JSC | *Software Engineer Co-op*

May 2019 – Aug 2019 | Houston, TX

- > Developed a C/C++ simulation software of a microcontroller in a prototype spacesuit, eliminating the need for hardware to test and train the Caution and Warning system.
- > Developed a tone player in C for the spacesuit to alert astronauts of detected faults.
- > Designed and implemented unit and integration tests in C++Unit with 100% code coverage.

NASA JSC | *Software Engineer Intern*

Jan 2019 – May 2019 | Houston, TX

- > Developed a Recurrent Neural Network with MATLAB to classify person's physical/cognitive state with 96% accuracy to optimize pilot training routines.
- > Automated data ETL with MongoDB and TCP/IP, reducing data preprocessing time by 20%.

NASA JSC | *Software Engineer Intern*

Aug 2018 – Dec 2018 | Houston, TX

- > Independently architected and developed a Wiki extension with D3.js, Docker, JavaScript, and PHP, improving navigation & visualization of 60,000+ nodes.
- > Implemented backend to fetch and organize data sets from database to be embedded on the webpage real-time using Python, SQL and cronjobs.

NOVO Consulting LLC. | *Software Engineer Intern*

Jun 2018 – Aug 2018 | New York, NY

- > Developed a web app to automate surveys, reducing company's resource consumption by 80%.
- > Implemented ReactJS for scalability and built back-end queries to PostgreSQL with Node.js.
- > Led project development using AGILE methodology and organized weekly standup meetings.

NYU ORLHS | *Software Engineer Intern*

Jan 2018 – Jun 2018 | New York, NY

- > Designed full-stack web applications that manage housing applications of +50k students.
- > Improved UI/UX with HTML/CSS3 and JavaScript with MVVM architecture. Deployed with ASP.NET.

Skills

Languages Python, HTML5, CSS3, SQL, JavaScript, C#, C, C++, Java, PHP, MATLAB

Frameworks Keras, TensorFlow, Scikit-Learn, ReactC, Pandas, NumPy, Django, D3.js, .NET

Other REST, Node.js, MongoDB, MySQL, PostgreSQL, Docker, Git, OpenMP/MPI, Unix