Jackie Cho

 jackiewcho.com   ✉ wjc368@NYU.edu   jcho124   in jackiewcho

WORK EXPERIENCE

NASA Kennedy Space Center (NE-XA)
Jan. 2020 – Ongoing | Florida
Software Engineer Pathways Intern (Co-op)

● Develop a full-stack, dynamic web app that automates data management and allows collaborative editing, built with CSS/HTML, JavaScript, PHP, and SQL.
● Resolve nonconformances and perform code reviews of the Customer Avionics Interface Development & Analysis (CAIDA) Advanced Telemetry Tool (CATT) while documenting and offering software design improvements.
● Collaborate with customers/professionals to determine functional/non-functional requirements for new software.

NASA Johnson Space Center (ER6)
ay 2019 – Aug. 2019 | Houston, TX
Software Engineer Pathways Intern (Co-op)

● Developed C/C++ software for a thermal control loop in the Portable Life Support System for the xEMU spacesuit.
● Integrated program into NASA's simulation framework (Trick) to test the Caution and Warning System (CWS).
● Developed a tone generator for the xEMU Radio that alerts astronauts of faults detected by the CWS during Extravehicular Activities and performed code reviews for consumables calculations and fault detection algorithms.
● Developed unit tests with 100% coverage for Class A Safety-Critical software.

NASA Johnson Space Center (ER6)
Jan. 2019 – May 2019 | Houston, TX
Software Engineer/Data Science Intern

● Developed a Recurrent Neural Network with LSTM units in MATLAB to classify person's physical/cognitive state with 96% accuracy, using heart rate, pupil diameter, and EEG data.
● Extracted data directly from biometric sensors with MongoDB and TCP/IP, decreasing data cleaning time by 20%.
● Performed feature extractions and sensitivity analysis, improving the network's accuracy rate by 17%.
● Developed a Visual Evoked Potential Based Brain-Computer Interface using Keras for rover control studies.

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

● Developed an interactive data visualization of NASA Wikis in D3.js, improving navigation of 60,000+ pages/links.
● Utilized web scraping techniques to extract Wiki data with MediaWiki API, JavaScript, PHP, and Docker.
● Deployed a Wiki extension that directly ETL data from MySQL using Python, decreasing preprocessing time by 30%.
● Tested an Automatic Machine Learning UI, H2O.ai's Flow and identified its application for future NASA projects.

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

● Developed a full-stack web application that automates games & surveys, decreasing time consumption by 40%.
● Implemented ReactJS in front-end, built back-end queries to PostgreSQL with Node.JS, and deployed on AWS.
● Learned the necessary tools on the job while efficiently communicating with a non-technical supervisor.

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

● Designed full-stack web applications for campus-wide use that manage housing applications and a support center.
● Improved UI/UX with HTML5, CSS3, JavaScript (ES6), and Bootstrap, while implementing a mobile-friendly design.
● Compiled and deployed with ASP.NET and AWS, while managing workflow with Git.

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

● Assisted with computer configuration, troubleshooting software and network connectivity issues.
● Updated computers to latest Windows operating systems using SCSM and maintained hardware & software components.

EDUCATION

New York University 2016-2021
B.A, Computer Science/Mathematics
3.72 GPA, Dean's Honors List

Relevant Courses: Basic Algorithms, Computer Systems Organization, Intro to Mathematical Modeling, Data Structure, Intro to Computer Science, Linear Algebra, Discrete Math, Calculus III

SKILLS

Languages:
Experienced: Python, HTML5/CSS3, JavaScript, MATLAB
Intermediate: C++, C, Java, C#, SQL, Processing, PHP
Library/Frameworks: Keras, TensorFlow, Pandas, Scikit-Learn, ReactJS, jQuery, Bootstrap, Django, Unity, Node.js, D3.js, ASP.NET MVC, Trick
Databases: AWS, MongoDB, PostgreSQL, MySQL, MariaDB
Tools/OS: Docker, Git, Trick, Jupyter, Octave, Logger Pro, Visual Studio, UNIX, MacOS, Windows