Jessica Kuleshov

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OBJECTIVE: Looking for a computer science, aerospace engineering, or linguistics internship where I could make a meaningful contribution utilizing and expanding on my skills

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EDUCATION

Columbia University - School of Engineering and Applied Science **Expected graduation: May 2022**
B.S. in Computer Science (Intelligent Systems), minor in Linguistics
Relevant classwork: Fundamentals of Computer Systems, Data Structures and Algorithms, Phonetics & Phonology, Language Documentation-Field Methods, NLP, Advanced Programming. Cumulative GPA 3.48 as of Jan. 2020

Stanford University - Summer Session **June 2019 - August 2019**
Classes taken: Finite Element Analysis, Programming Methodologies in Python, Accelerated First-Year Japanese. Cumulative GPA 3.54

Holmdel High School, Holmdel, NJ - GPA 4.71 - ***Valedictorian*** **June 2018**

Columbia University Science Honors Program **September 2016 - May 2018**
Classes taken: Particle Physics, Fabrication of Classical and Quantum Computing Devices, Neuroscience, Graph Theory

NJ Governor's School of Engineering and Technology (Rutgers University, New Brunswick, NJ) **Summer 2017**
Classes taken: Modern Physics, Intro. to Digital Electronics for Robotics, Robotics, Intro. to Materials Science

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SKILLS:

- Proficient in Microsoft Word, Excel, PowerPoint, and the Google suite
- Working knowledge of Python, Java, MATLAB, C, C++, NLTK, speech recognition
- Experience with Docker, Jupyter Notebook, Git, Linux, Tensorflow
- 3D Printing, SolidWorks, Autodesk Inventor, ANSYS/FEA/CFD, ROS
- Fluent in English and Russian, proficient in French, studying Dutch, Japanese, and Swedish
- Adaptability - can learn new skills quickly and apply them as needed
- Confident and articulate oral and written communication skills - co-wrote research papers/made posters, presented
- Excellent time management skills - can handle large workloads under pressure and devote time needed to meet deadlines

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RELATED EXPERIENCE

Research and Development Intern, Quantum Numerics AG **June 2020 - present**
- Researched, optimized, and implemented ODEs, simulation of n-body problems and planetary and satellite orbits
- Working on optimizing parallel computing using Numba and GPU computation

Project Mentor, New Jersey Governor's School of Engineering and Technology **June 2020 - July 2020**
- Mentored incoming high school seniors for a project building a voice-driven learning platform

Co-President, Columbia Space Initiative **February 2020 - present**

Treasurer, Airframe and Integration, Columbia Space Initiative Rocketry Team (IREC) **September 2018 - present**
- Fabrication of the carbon fiber nose cone from scratch, from FEA simulations and CAD to the layup process
- Construction and programming of the filament winder

President, Holmdel High School Robotics Club (USFIRST FTC Team 5398) **September 2013 - June 2018**
- Attended the FIRST Tech Challenge World Championships in Detroit in 2018
- Heavily involved in the prototyping, building, and CAD of the robot

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HONORS AND AWARDS

National Merit Scholarship Winner - Grade 12, Perfect score of 1520
AP Scholar with Honors - Grade 12
National Honor Society – Grades 11, 12

EXTRACURRICULAR ACTIVITIES

Co-President, Co-Founder, **Columbia GLOT** **2019-present**
- A linguistics club for language lovers and learners to practice their native and target languages
- Hosts outings, speakers, and presentations on various languages and cultures for the Columbia community

Bass Clarinet, **Columbia University POPS Orchestra** **2018-present**
Bass Clarinet, **Columbia University Wind Ensemble** **2018-2020**
Judge, Volunteer Coach, Gymnast, **USAIGC Jersey Shore Rhythmic Illusions Club (Rhythmic Gymnastics)** **2014-present**

INTERESTS

Engineering, Dancing, Robotics, Astrophysics, Languages, Poi, and Playing Music