

Jess Kuleshov

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EDUCATION

Columbia University - School of Engineering and Applied Science

Graduated May 2022

B.S. in Computer Science (Intelligent Systems), Minor in Linguistics. GPA 3.73, Dean's List 2020-2022

Relevant coursework: Databases, Data Structures and Algorithms, Cloud Computing, Artificial Intelligence, NLP, Semantic Representations for NLP, Spoken-Language Processing, Speech Recognition

Publications: Perception of the Russian Accent by American-English Speakers

RELATED EXPERIENCE

Technical

Software Development Engineer, ATLAS Space Operations

July 2022 - Present

➤ Migrated to a cleaner microservice architecture using AWS API Gateway, managed the onboarding checklist software (Python, Django), expanded functionality of the scheduling API (Java), integrated our machine learning application into our general software stack (Python, Docker, Flask, AWS ParameterStore and SecretsManager), and optimized the antenna utilization forecaster (Java, Jupyter, Grafana)

➤ Supported 7 different customer integrations as the lead software POC, assisted in hardware compatibility testing, and supported launches as part of the Integrations Team

Brooke Owens Fellow, Missions Software Intern, Planet Labs

December 2020 - September 2021

➤ Selected as part of a class of 40 fellows out of 800 applicants for a paid internship and mentorship in the commercial aerospace sector

➤ Worked on microservice functionality migration and database management (Python, Django)

Research and Development Intern, Quantum Numerics AG

June 2020 - May 2021

➤ Researched, optimized, and implemented ODEs, simulation of n-body problems and planetary and satellite orbits

➤ Created a front-end interface with the n-body GPU code (Flask), and data visualization of debris (DeckGL)

Management

Co-Founder and Logistics Lead, Friends of Amateur Rocketry: Oxidizers Uninhibited Tournament (FAR-OUT)

July 2023 - Present

➤ Co-created an international competition for collegiate hybrid-engine and liquid-engine rocketry teams

➤ Interface with the FAR launch site and the Mojave Air and Space Port, manage Squarespace website, oversee finances and launch site/conference logistics, and organize volunteer personnel

➤ 13 teams submitted applications, with 6 hybrid teams and 7 liquid teams, making this the largest competition of its kind in the world

Teaching Assistant, Columbia University

January 2021 - May 2021, January 2022 - May 2022

➤ Spring 2022: Assisted with teaching and grading assignments for Semantic Representations for NLP with Prof. Daniel Bauer and

Introduction to Linguistics with Prof. John McWhorter

➤ Spring 2021: Assisted with teaching and grading assignments for Introduction to Linguistics with Prof. McWhorter

Co-Lead and Airframe and Integration Lead, Columbia Space Initiative Rocketry Team (IREC)

June 2021 - June 2022

➤ Managing team organization, events, and general bookkeeping; designed team website

➤ Fabrication of the carbon fiber nose cone from scratch, from FEA simulations and CAD to the layup process

SKILLS

➤ Extensive experience with Python, Java, Git, SQL, Jupyter Notebook, Grafana, Jenkins, Bash

➤ Worked often with AWS services such as API Gateway, DynamoDB, S3, CodeCommit, Systems Manager, CloudWatch

➤ Experience with Docker, Google Cloud, Kubernetes

➤ Fluent in English and Russian, proficient in French and Dutch, studying Japanese

➤ Adaptability - can learn new skills quickly and apply them as needed

➤ Confident and articulate oral and written communication - comfortable speaking to other teams and writing documentation

➤ Excellent time management skills - can handle large workloads under pressure and devote time needed to meet deadlines

➤ Project management - able to organize a team, prioritize tasks and negotiate specifications of projects to meet goals

VOLUNTEERING AND HOBBIES

Assistant Hybrids Pads Manager & Networking Infrastructure, *Launch Canada*

July 2023-August 2023

Hybrids Pads Volunteer, *Spaceport America Cup*

2022-2023

L2 Certification, *Tripoli Rocketry Association*

October 2022

Co-Founder, *Columbia GLOT*

2019-2021

➤ A club for linguists and language lovers and learners to practice languages and learn about other languages

➤ Hosts outings, speakers, and presentations on various languages and cultures for the Columbia community

INTERESTS

Space, Robotics, Languages, Poi, Cooking, and Playing Music