

Lucas Saldyt

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<http://github.com/LSaldyt>
Cleveland, Ohio

Education

- **Arizona State University: Barrett, The Honors College** Tempe, Arizona
Bachelor of Science in Computer Science, GPA: 3.6 Sep. 2017 - May 2021

Experience

- **National Aeronautics and Space Administration** Cleveland, Ohio
Machine Learning Intern Jan. 2020 - Current
 - Architected a machine learning tool which aggregates a database used for biomimetic aerospace system design
 - Improved a search engine by expanding the natural language processing system and model for querying the internal database
 - Implemented data mining and machine learning algorithms for collecting and processing information on the web into database entries (including image classification and segmentation)
- **National Aeronautics and Space Administration** Cape Canaveral, Florida
Software Engineering Intern Jun. 2019 - Aug. 2019
 - Worked on class A, safety-critical, human rated spaceflight ground control software by participating in the full software development lifecycle and using agile processes
 - Created, benchmarked, and optimized verification/validation software for launch control tests
 - Independently prototyped original display profile saving system for launch control engineers
- **Sandia National Laboratories (Dr. Erik Nielsen)** Albuquerque, New Mexico
Quantum Computation Intern Jun. 2015 - Sep. 2018
 - Developed high-fidelity quantum benchmarking (Gate Set Tomography) software
 - Created distributed high-performance simulation, verification, and data analysis software
 - Assisted in publishing papers in quantum benchmarking
- **ASU Complex Systems Research (Dr. Yun Kang)** Tempe, Arizona
Mathematics Research Assistant Oct. 2018 - Current
 - Unique math/computer modeling and visualization of ant nest choice and alarm propagation
 - Third author of a computation biology paper on alarm propagation, to be published in PNAS
- **Fulton Undergraduate Research Initiative (Dr. Ajay Bansal)** Tempe, Arizona
Machine Learning Researcher Sep. 2018 - Jun. 2019
 - Developed Qurry, a quantum programming language
 - Machine learning research, focused around Kolmogorov complexity and program learning
- **The Fluid Analogies Research Group (Dr. Alexandre Linhares)** Remote (paid)
Cognitive Science Research Assistant Oct. 2016 - Sep. 2018
 - Revitalized of Douglas Hofstadter's "copycat" cognitive model
 - Statistical analysis/visualization and comparison of various models to human data

Skills

Programming Languages: Python, C++, Java, Bash, Clojure (LISPs), Haskell, C, MATLAB, R

Libraries: Tensorflow, pandas, numpy, seaborn, matplotlib, and many others.

Applications: Vim, L^AT_EX, Git, MPI, Supercomputing (Slurm), Jupyter Notebook, Autodesk Design

Operating Systems: Linux, MacOS X, Windows

Natural Languages: English, Ukranian, Spanish