

Lucas Saldyt

lucassaldyt@gmail.com • 505-506-1245 • <https://github.com/LSaldyt>

Education	Arizona State University: Barrett, The Honors College	Tempe, Arizona
	<i>Bachelor of Science in Computer Science, GPA: 3.7</i>	<i>Sep. 2017 - May 2021</i>
Experience	National Aeronautics and Space Administration	Cape Canaveral, Florida
	<i>Software Engineering Intern</i>	<i>Jun. 2019 - Aug. 2019</i>
	<ul style="list-style-type: none">• 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
	<i>Quantum Computation Intern</i>	<i>Jun. 2015 - Sep. 2018</i>
	<ul style="list-style-type: none">• 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	
	Los Alamos National Laboratories (Dr. Scott Pakin)	Albuquerque, New Mexico
	<i>Quantum Computation Shadow</i>	<i>Apr. 2017</i>
	<ul style="list-style-type: none">• Benchmarked the knapsack problem on LANL's DWave annealer and IBM's machines	
	ASU Complex Systems Research (Dr. Yun Kang)	Tempe, Arizona
	<i>Mathematics Research Assistant</i>	<i>Oct. 2018 - Current</i>
	<ul style="list-style-type: none">• Unique math/computer modeling and visualization of ant nest choice and alarm propagation• Author of a computation biology paper on alarm propagation, published in PNAS	
	Fulton Undergraduate Research Initiative (Dr. Ajay Bansal)	Tempe, Arizona
	<i>Machine Learning Researcher</i>	<i>Sep. 2018 - Jun. 2019</i>
	<ul style="list-style-type: none">• 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)
	<i>Cognitive Science Research Assistant</i>	<i>Oct. 2016 - Sep. 2018</i>
	<ul style="list-style-type: none">• Revitalized of Douglas Hofstadter's "copycat" cognitive model• Statistical analysis/visualization and comparison of various models to human data	
	Unitary Fund	Remote (paid)
	<i>Quantum Software Researcher</i>	<i>Jun. 2018 - Current</i>
Skills	<ul style="list-style-type: none">• Prototyping of a quantum programming language, called "Qurry"• Presented in Brussels, Belgium at the FOSDEM Quantum Computing Conference	
	Programming Languages: Python, C++, Java, Bash, Clojure (LISPs), Haskell, C, MATLAB, R, Fortran	
	Applications: Vim, L ^A T _E X, Git, MPI, Supercomputing (Slurm), Jupyter Notebook, Autodesk Design	
	Operating Systems: Linux, MacOS X, Windows	
	Natural Languages: English, Ukrainian, Spanish	