Lucas Saldyt

lucassaldyt@gmail.com http://github.com/LSaldyt
505-506-1245 Mesa, Arizona

Education

- **Arizona State University. Barrett, The Honors College** Tempe, AZ
  Bachelor of Computer Science, GPA: (3.7) *Sep. 2017 - Current*
- **MIT Open Courseware** Online
  Supplementary courses in quantum computing, artificial intelligence, and computer science

Experience

- **NASA (National Aeronautics and Space Administration)** Cape Canaveral, FL
  Software Engineering Intern *Jun. 2019 - Aug 2019*
  - Benchmarked and optimized safety-critical live validation system for launch control system
  - Independently created original display profile saving system for launch control operators
- **Sandia National Laboratories (Dr. Erik Nielsen)** Albuquerque, NM
  Quantum Computation Intern *Jun. 2015 - Sep. 2018*
  - Developed high-fidelity quantum benchmarking (Gate Set Tomography) software
  - Created a distributed high-performance simulation, verification, and data analysis software
  - Assisted in publishing papers in quantum benchmarking
- **Los Alamos National Laboratories (Dr. Scott Pakin)** Albuquerque, NM
  Quantum Computation Shadow *April 2017*
  - Benchmarking the knapsack problem on LANL's DWave annealer and IBM's machines
- **ASU Complex Systems Research (Dr. Yun Kang)** Tempe, AZ
  Mathematics Research Assistant *Oct. 2018 - Current*
  - Unique math/computer modeling and visualization of ant nest choice and alarm propogration
  - Author of a computation biology paper on alarm propogation, published in PNAS
- **Fulton Undergraduate Research Initiative (Dr. Ajay Bansal)** Tempe, AZ
  Machine Learning Researcher *Sep. 2018 - June 2019*
  - Development of 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*
  - Revitalization of Douglas Hofstadter's "copycat" cognitive model
  - Statistical analysis/visualization and comparison of various models to human data
- **Unitary Fund** Remote (paid)
  Quantum Software Researcher *Jun. 2018 - Current*
  - Prototyping of a quantum programming language, called "Qurry"
  - Presentation in Brussels, Belgium at the FOSDEM Quantum Computing Conference

Skills

Programming Languages (by experience): Python (2.x-3.x), C++ (1998-2020), Java (8-11), Bash, Clojure (LISPs), Haskell, C, Matlab, R, FORTRAN

Applications: Vim, LaTeX, git, MPI, Supercomputing (Slurm), Jupyter Notebook, Autodesk Design

Operating Systems: Linux, MacOS X, Windows