Lucas Saldyt

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505-506-1245 Mesa, Arizona

Education

- **Barrett, The Honors College. Arizona State University** Tempe, Arizona
  Bachelors of Computer Science, GPA: (3.7) *Sep. 2017 - Current*
- **MIT Open Courseware** Online
  Supplementary Courses: assignments at github.com/LSaldyt *Ongoing*
  - Data Structures and Algorithms (Demaine), Quantum Algorithmic Complexity (Aaronson), Quantum Mechanics (Zwiebach), Artificial Intelligence (Winston), Artificial General Intelligence (Fridman), Society of Mind (Minsky), Computer Security (Zeldovich), Information Theory (Lloyd)

Experience

- **NASA (National Aeronautics and Space Administration)** Cape Canaveral, Florida
  Software Engineering Intern *Jun. 2019 - Aug 2019*
  - Benchmarked and optimized safety-critical live validation system for Launch Control System
  - Published abstract documenting software improvements made during the summer
- **Sandia National Laboratories** Albuquerque, New Mexico
  Quantum Computation Intern *Jun. 2015 - Sep. 2018 (3 Summers)*
  - Developed high-fidelity quantum benchmarking (Gate Set Tomography) software
  - Created a distributed high-performance simulation, verification, and data analysis software
  - Oversaw porting entire codebase (over 1 million lines) to Python3.x
- **The Fluid Analogies Research Group** Remote (paid)
  Cognitive Science Intern *Oct. 2016 - Sep. 2018*
  - Revitalization of Douglas Hofstadter's "copycat" cognitive model
  - Statistical analysis and comparison of various models to human data
- **Dr. Carlos Castillo-Chavez's Complex Systems Research Group** Tempe, Arizona
  Mathematics Intern *Oct. 2018 - Current*
  - Math and computer modeling of ant nest choice and alarm propogration
- **Unitary Fund** Remote (paid)
  Quantum Software Researcher *Jun. 2018 - Current*
  - Prototyping of a quantum programming language, called "Curry"
  - Presentation in Brussels, Belgium at the FOSDEM Quantum Computing Conference
- **Los Alamos National Laboratories** Albuquerque, New Mexico
  Quantum Computation Intern (Shadow) *April 2017*
  - Benchmarking the knapsack problem on LANL's DWave and IBM's 5-qubit machine

Skills

Programming Languages: Python, C++, Clojure, Java, Haskell

Operating Systems: Linux (Arch, Redhat, Ubuntu), MacOS X, Windows

Applications: Vim, LaTeX, Jupyter Notebook, MatLab, Autodesk design, Office suites

Libraries: tensorflow, pandas, seaborn, numpy, scikit learn

Natural Languages: English, Ukranian, Spanish