

# ARDLAN KHALILI

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Website: <http://ardlank.com>

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## Education

B.S in Computer Science

08/2013 to 08/2017

**The University of Tennessee** - Knoxville, TN

- GPA: 3.86/4.0
- Scholarships: Harlan D. Mills (\$2,500), James W. Mitchell (\$2,000), Swan Brothers (\$2,000), Patsy & Frank Borthick (\$1,500), Fred M. Roddy (\$1,500), Frederick T. Bonham (\$1,500) and Enterprise Integration Cyber (\$1000).

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## Employment

Co-Founder

10/2017 to Present

**uFlock** - Sunnyvale, CA

- **Lead Developer** - Swift to build out the front end and Google's Firebase to build out cloud functions for the backend.
- **Designer** - Design the UX and UI in Adobe Illustrator.

Software Development Intern

05/2017 to 08/2017

**NASA Langley Research Center** - Hampton, VA

- Increased the code coverage of NASA's web pages by implementing automated test case.
- The software improved the efficiency and speed of functional and regression test execution by a factor of 2.
- Utilized Gmail's APIs into the technology stack to automatically extract order numbers.

Tutor

10/2016 to 05/2017

**The University of Tennessee** - Knoxville, TN

- Tutor undergraduate students in 100, 200 and 300 level computer science courses.
- Received a 100% approval rating from students.

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## Research

Student Researcher

05/2016 to 08/2016

**University of North Dakota** - Grand Forks, ND

- Researched and developed a high altitude low-cost balloon test platform.
- Used C++ on the Arduino IDE to program the satellite.
- Authored a paper based on my findings for the Academic High Altitude Conference (AHAC).

Student Researcher

01/2016 to 05/2016

**Oak Ridge National Laboratory** - Knoxville, TN

- Researched new algorithms for optimal path and better curvature to 3D prints.
- Optimized a slicer program by implementing a hexagonal mesh algorithm that increased the quality of prints in certain situations by 10%.

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## Publication

Ardlan Khalili, Skye Antinozzi, Oscar Velasco, Jeremy Straub, John Nordlie and Ronald Marsh, "BalloonSAT: A Very Low-Cost 'Satellite' Test Platform," *2016 Academic High Altitude Conference*, St. Paul, MN, June, 2016.

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## Projects

**Personal Website** (2017) - Personal webpage to display my work and contact. *HTML, CSS, PHP, JavaScript, LAMP stack*

**Ka-Pow** (*Senior Design, Team Lead*, 2017) - Creation of an electrical substation in Unity to train electrical mechanics. *Unity, C#*

**Hack the Planet** (*VandyHacks III*, 2017) - Augmented reality iOS app for a 2D world map. 3D assets would be projected from countries and audio would accompany them. *Unity, Xcode, Vuforia's SDK*

**Thermo-Leap** (*FiskHacks II*, 2016) - Control of the Nest thermostat from the Leap Motion device. *C++, Nest REST API*

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## Languages and Technologies

- Coding languages: C, C++, C#, Java, Python, HTML, JavaScript, PHP, SQL, XML, and Swift.
- Frameworks and Tools: Git, Docker, Cocoa Touch.
- IDE's and Editors: Xcode, Unity, Arduino's IDE, Google's Firebase, Vim, eMac.

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## Affiliations

- Hackathons: VandyHacks III, FiskHacks II, VolHacks, GE GhostHack, and Github's Hacktoberfest.
- IEEE at the University of Tennessee.
- Association for Computing Machinery at the University of Tennessee.
- National Society of Collegiate Scholars.