ARDLAN KHALILI

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Education

B.S.E in Computer Science   *08/2013 to 08/2017*
The University of Tennessee - Knoxville, Tennessee
- 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).

Employment

Software Development Intern   *05/2017 to 08/2017*
NASA Langley Research Center– Hampton, VA
- Used Python for the creation of automated test cases to crawl through NASA's web pages (bots).
- The software improved the efficiency and speed of functional and regressional test execution by a factor of 2.
- Introduced Gmail's APIs into the technology stack to automatically extract order numbers.

Tutor   *10/2016 to 05/2017*
Systers at The University of Tennessee - Knoxville, Tennessee
- Tutor undergraduate students in 100, 200 and 300 level computer science courses.
- Received a 100% approval rating from students.

Research

Student Researcher   *05/2016 to 08/2016*
Department of Computer Science, 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.
- Created and published a paper for the Academic High Altitude Conference (AHAC).

Student Researcher   *01/2016 to 05/2016*
Oak Ridge National Laboratory Manufacturing Demonstration Facility – Knoxville, TN
- Researched new algorithms for optimal path and better curvature to 3D prints.
- Used C++ to optimize a slicer program that increased the quality of prints in certain situations by 10%.

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.

Projects

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

Hack the Planet (VandyHacks III, 2017) – Augmented reality 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++, API

Languages and Technologies

- Coding languages: C, C++, C#, Java, Python, HTML, JavaScript, PHP, SQL, XML, and Swift.
- Linux environment.
- Git version control and Docker's container platform.
- iOS mobile development and Xcode.
- Unity game development.
- ARM assembly code.
- 3D printers and software.

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.
- University of Tennessee Investment Group (UTIG).