

# Farhankhan Daya

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## EDUCATION

The University of Texas at Austin, Austin, TX

Graduation May/2016

### Bachelor of Science in Computer Science

- UT GPA 3.40 – 83 hours
- Notable Courses: CS 439 (Operating Systems), CS 429 (Computer Architecture), CS 314 (Data Structures), CS 378 (Modern Web Applications)
- Business Foundations Certificate (2012-2016)
- Communications Society IT Chairman: The club is primarily focused on computer security and its flaws. My primary responsibilities involve setting up and managing our backend servers and ensuring uptime for our hackathons.

## HONORS AND AWARDS – LEADERSHIP – COMMUNITY INVOLVEMENT

- Eagle Scout - 2010, Gold PSA (Presidential Service Award), 2008-2009, 2009-2010, 2010-2011
- Assembled, managed, and coordinated a group of roughly 30 people in order to build an 8' x 12' tool shed for a local church.

## WORK EXPERIENCE

Research Assistant (2013-2014) - <https://www.edx.org/course/utaustinx/utaustinx-ut-5-01x-linear-algebra-1162#.VBpBPfIdV8E>

- Researched effective ways to teach linear algebra through the use of python and basic computer science concepts
- Demonstrated research results through the development of a MOOC (online course) on the edX platform that averaged 4000 active participants. (Incredibly high for a MOOC)

### Independent IT work (2014)

- Created the internal network for a doctor's office. Original setup featured two DHCP servers clashing with each other (on the same network and not configured to work together). I had to redo the entire network and set up all their networked devices again as promptly as possible (they were in the middle of a patient influx and their patient records were online)

## PROJECTS

- Created a web interface (<https://github.com/solewolf/wicker>) to manage remote "cracking sessions" dealing with WPA handshakes with a friend.
- Developed demo for online music collaboration platform during HackOut (<http://hackout.challengepost.com/> - <https://github.com/lobabob/MusicHub>) with a development team of 3 others – 2014
- Created a game (a platformer - <https://github.com/lobabob/GameJam>) with a team during a Global Game Jam that demonstrated an understanding of the libgdx library for Java – 2014
- Programmed a script (Trackr - <http://guysthatcode.com/projects/trackr/>) in Python and PHP with a friend that would provide a computer recovery service for stolen Linux and Mac computers. Services included providing the internal/external ip address, Uptime, info on remaining battery life, remote control of the camera (photos and videos), remote screenshot abilities, remote locking abilities, and the ability to remotely execute commands. – 2012
- Built and programmed a robot with a team. The robot had navigational and defensive abilities in order to path its way through a maze while pushing away other enemy robots. The team had to deal with repeated (and unexpected) circuit-board combustion mid-competition. Placed 3<sup>rd</sup> in a competition held by the UT Robot & Automation Society - 2013

## SKILLS

### Programming Languages:

- Proficient in Java
- Intermediate with C, x86 Assembly, and PHP
- Exposure to Python, and LaTeX

### Web Development:

- Proficient in CSS, HTML, and use of the jQuery library
- Exposure to HTML5, CSS3, JavaScript and Bootstrap

### General:

- Familiar with GIT and the Linux environment
- Native English, Novice Urdu (Can mostly understand the language, but can't speak it)

### Penetration Testing:

- Intermediate with usage of Metasploit and chaining tools together to achieve results
- Exposure to Buffer Overflows, SQL Injections, XSS attacks, MITM attacks (ex: ARP/DNS Cache Poisoning, pass the hash), sniffing networks, and IP Address spoofing