
EMPLOYMENT

-
- | | | |
|---------------------------------|----------------------|-------------------------------|
| Software Engineer, Co-op | Connected Lab | May 2015 – August 2015 |
|---------------------------------|----------------------|-------------------------------|
- Wifi-Streaming Music Application in Android
- Redesigned UI and implementation of application for compatibility and support for Android 5.0 and above.
 - Debugged BLACKFIRE audio streaming issues between phone and proprietary speaker system.
 - Integrated application with crash reporting tool, Crashlytics for quick error discovery and resolution.
 - Coordinated with international teams using Pivotal tracker management tool in agile development sprints.
- | | | |
|--------------------------------------|----------------------------|---------------------------------|
| Software Engineer and Analyst | Qineqt Pk Pvt. Ltd. | May 2014 – December 2014 |
|--------------------------------------|----------------------------|---------------------------------|
- Streamlined the production pipeline by removing redundancies and automating processes.
 - Implemented an automatic meta-tag generation system to hyperlink company names with financial profiles.
 - Improved financial data fetching by upto 2x by implementing a smart cache.
- | | | |
|--------------------------------|--|--------------------------------|
| Teaching Assistantships | University of British Columbia and LUMS | Fall 2012 – Spring 2016 |
|--------------------------------|--|--------------------------------|
- Courses: Distributed Systems, Service Oriented Computing, Operating Systems, Introduction to Algorithms and Datastructures and Introduction to Computer Systems.
 - Was promoted to Head TA at LUMS in Operating Systems; Led weekly meetings and supervised 2 other TAs.

EDUCATION

-
- | | | |
|----------------------|---------------------------------------|----------------------------|
| Vancouver, BC | University of British Columbia | Jan 2015 – Dec 2016 |
|----------------------|---------------------------------------|----------------------------|
- MSc. in Computer Science, University of British Columbia, Expected Dec 2016. GPA: 4.0
 - BS in Computer Science Lahore Univeristy of Management Sciences, May 2014. In-major GPA: 3.6.
 - Graduate Coursework: Topics in Distributed Systems; Mobile Security Smartphone Security; Computer Security; Human Computer Interaction; Topics in Networks and Systems.
 - Undergraduate Coursework: Operating Systems; Databases; Algorithms; Advanced Programming; Comp. Architecture; Entrepreneurship; Intro to Management; Distributed Systems; Computer Security.

TECHNICAL EXPERIENCE

Projects

- **ThirdEye** (2015 - Ongoing). Master's Thesis. A continous authentication system for Facebook which uses Facebook activity to fingerprint users and sends notifications if anomalous user patterns are detected.
- **BitRiver** (2015). A streaming bit-torrent client. Go
- **SDN Cloud Gaming** (2013 - 2014). SDN-based smart routing system to prioritize cloud gaming streams around areas of heavy traffic within the network. Java, OpenFlow, FloodLight Controller
- **Tracktrix** (2014). A karaoke application to filter vocals of songs and allows users to record and embed their vocals. Won 1st prize in Microsoft Hackathon. <http://bit.ly/160eZBC>. Java, Android, C# (Windows Metro)
- **Kraken (Personal)** (2016 - Ongoing). Cross-Platform, fully integrated, fault tolerant distributed password cracking system built on top of lib-gearman, protocol buffers and Jetty Server. Java

ADDITIONAL EXPERIENCE AND AWARDS

- **International Tuition Award:** UBC Tuition award for fully funded MSc in Computer Science.
- **High Merit List for BS. Computer Science:** Distinction for Overall GPA in Undergraduate Studies

LANGUAGES AND TECHNOLOGIES

- C++; Java; C#; Go; SQL; JavaScript; Python; MongoDB
- Visual Studio; MySQL WorkBench; Eclipse; IntelliJ, Brackets, PyCharm