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WALI AHMED USMANI
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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 Datastuctures 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
- **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 funding Masters.
- **High Merit List BS:** 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