



Amber Aftab

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EDUCATION

Lahore University of Management Sciences (LUMS)	June 2015 - June 2019
Candidate for BS (Computer Science) - CGPA: 3.67 (Placed on Dean's Honor List)	
Karachi Grammar School	August 2013 - June 2015
Cambridge Advanced Level – 4 A*s	
Karachi Grammar School	August 2010 - June 2013
Cambridge Ordinary Level – 9 A*s and 1 B	

WORK EXPERIENCE

Teaching Assistant at LUMS - CS-100 (Computational Problem Solving)	Aug 2017 - Dec 2017
Teaching Assistant at LUMS – CS-310 (Algorithms)	Aug 2018 - Dec 2018

RESEARCH

Currently working on code obfuscation using Intel SGX which combines LLVM code transforms to add aliases and reconfigure control flow of a program. With certain parts of the transformed program run in Intel SGX, prevents most or all static analysis of the program, even with privileged access to software and hardware.

COURSE PROJECTS

Paxos in GoLang
P2P file sharing network in python
Simplified MapReduce master and workers search engine in python
C++ code parser, lexer and interpreter in python
Android budgeting app in Android Studio and Java

TECHNICAL SKILLS

-**Technologies and environments:** Windows/Linux, Android Studio, MATLAB
-**Languages:** C/C++, Python, Java, JavaScript (nodeJS), reactJS, Haskell, Golang, x86 assembly code, HTML, CSS

**advanced programming techniques (Object-oriented programming, functional programming, asynchronous programming and parallel programming)*

EXTRA CURRICULAR

Team Member of Teach for Change department at LUMS Community Service Society
Team Member of LUMS Music Society