

ASAD SALMAN

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EDUCATION

Northeastern University

Masters in Cybersecurity *GPA: 3.9*

Selected coursework: Distributed Systems, Software Vulnerabilities, Network Security

Boston, MA

Sep 2018 - May 2020

National University of Science and Technology

Bachelors in Software Engineering

Islamabad, Pakistan

Sep 2014 - June 2018

SKILLS

Programming Languages: C, C++, C#, Python, Golang (Go), Java, JavaScript, PHP
Mobile Development: Android SDK & NDK
Operating Systems: Linux, Windows, macOS
Web Development: AngularJS, Wordpress, Bootstrap, Laravel
Big Data: Spark, Hadoop
Database: MySQL, CouchDB
Misc: AWS, Docker, Penetration Testing, Bash, \LaTeX , Git, Digital Forensics

EXPERIENCE

Northeastern University *Research Assistant*

Sep 2018 - Present

Worked on quantifying network properties of the Ethereum peer-to-peer network, and their effect on the security of the blockchain. Worked with Prof. Cristina Nita-Rotaru.

Northeastern University *Teaching Assistant*

Fall 2019

I was the teaching assistant for the PhD level **Distributed Systems** course at Northeastern University. Covered topics include distributed consensus algorithms (Paxos, PBFT), impossibility proofs (FLP) etc.

NUST - School of EE & CS *Research Assistant*

June 2017 - August 2018

Devised and implemented schemes to protect the Bitcoin protocol from certain DoS Attacks. Project involved using Bloom Filters to replace memory-heavy lookup operations performed on incoming transactions on Bitcoin nodes.

Google Summer of Code - GNU Project

Summer 2017

Wrote a V8 Engine wrapper in C++ for GNU's Ring, an open-source, distributed, privacy-preserving calling app. At the end of the project, the previously OS-specific application could be deployed on any platform that supports running NodeJS using Electron framework. Later went on to write an Ethereum-based, distributed nameservice for the same project.

Tranchulas *Cybersecurity Intern*

Summer 2016

Learnt about penetration testing and application security. Practiced through hacking competitions (CTFs). Also, covered forensics, and lock picking.

Research Internship in Science and Technology *Research Intern*

Summer 2014

Ran Big Data jobs on Hadoop cluster as part of a research project. This work was done as part of a high school research experience with Dr. Salman Toor.

AWARDS

Cisco Global Cybersecurity Scholarship

2016

Got a scholarship to study for and attempt exams of Cisco's associate level CCNA Cyber Ops certification.

Women's Transport Innovation Hackathon Winner

2015

Developed Android app that made women's use of public transport safer in Pakistan. The hackathon was sponsored by Toyota and UN Women.

SEECS Social Hackathon Winner

2015

Won SEECS Social Hackathon against 50 other teams. Developed Android app that helps students prepare for universities' competitive entrance exams.

AWARDS

Scaling Bitcoin Travel Subsidy

2017

Netsys'17 Student Travel Grant

2017

ACSAC Student Conferenceship Award

2016

Debconf'17 Grant

2017