

# ASAD SALMAN

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## EDUCATION

### Northeastern University

Masters in Cybersecurity *GPA: 3.9*

*Selected coursework:* Software Vulnerabilities, Network Security, Distributed Systems

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, Java, JavaScript, PHP  
Mobile Development: Android SDK & NDK  
Operating Systems: Linux, Windows, macOS  
Web Development: Laravel, Wordpress, Bootstrap, AngularJS  
Big Data: Spark, Hadoop  
Database: MySQL, CouchDB  
Misc: AWS, Docker, Penetration Testing, Bash,  $\text{\LaTeX}$ , 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.

### 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.

## GRANTS

### Scaling Bitcoin Travel Subsidy

2017

Awarded travel subsidy to attend Scaling Bitcoin 2017 Workshop at Stanford.

### Netsys'17 Student Travel Grant

2017

Awarded an ACM SIGCOMM sponsored grant to attend NetSys'17 in Göttingen, Germany.

### ACSAC Student Conferenceship Award

2016

Awarded a grant to attend Annual Computer Security Applications Conference 2016 in Los Angeles.

### Debconf'17 Grant

2017

Awarded a grant to attend open-source conference DebConf'17 in Montreal, by event sponsor Savior-Faire Linux.