ASAD SALMAN

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EDUCATION

Northeastern University   Boston, MA
Masters in Cybersecurity   Sep 2018 - May 2020
Selected coursework: Distributed Systems, Software Vulnerabilities, Network Security

National University of Science and Technology   Islamabad, Pakistan
Bachelors in Software Engineering   Sep 2014 - June 2018

SKILLS

Programming Languages:	C++, Java, Python, Golang (Go), JavaScript
Mobile Development:	Android SDK & NDK
Big Data:	Spark
Database:	MySQL, CouchDB
Web Development:	AngularJS, Wordpress, Bootstrap, Laravel
Misc:	AWS EC2, AWS S3, Docker, Penetration Testing, Bash, LaTeX, Git

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 (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 *Open-source Contributor*   Summer 2017
Wrote a V8 Engine wrapper in C++ for GNU's Jami, a distributed, privacy-preserving calling app. At the
end of the project, the previously OS-specific application could be deployed on across platforms. Later went
on to write an Ethereum-based, distributed nameservice for the same project. Open-source contributions at:
`https://bit.ly/2UngCUx`

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

Netsys'17 Student Travel Grant   2017

ACSAC Student Conferenceship Award   2016

Debconf'17 Grant   2017