ASAD SALMAN

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EDUCATION

Northeastern University   Boston, MA
Masters in Cybersecurity *GPA: 3.9*   Sep 2018 - May 2020
Selected coursework: Software Vulnerabilities, Network Security, Distributed Systems

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

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.

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 challenge 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.

SKILLS

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