

ASAD SALMAN

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EDUCATION

Northeastern University Masters in Cybersecurity <i>Selected coursework:</i> 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++, 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, L ^A T _E X, Git

EXPERIENCE

Northeastern University <i>Research Assistant</i> 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.	Sep 2018 - Present
Northeastern University <i>Teaching Assistant</i> 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.	Fall 2019
NUST - School of EE & CS <i>Research Assistant</i> 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.	June 2017 - August 2018
Google Summer of Code - GNU Project <i>Open-source Contributor</i> 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	Summer 2017
Tranchulas <i>Cybersecurity Intern</i> Learnt about penetration testing and application security. Practiced through hacking competitions (CTFs). Also, covered forensics, and lock picking.	Summer 2016
Research Internship in Science and Technology <i>Research Intern</i> 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.	Summer 2014

AWARDS

Cisco Global Cybersecurity Scholarship Got a scholarship to study for and attempt exams of Cisco's associate level CCNA Cyber Ops certification.	2016
Women's Transport Innovation Hackathon Winner Developed Android app that made women's use of public transport safer in Pakistan. The hackathon was sponsored by Toyota and UN Women.	2015
SEECS Social Hackathon Winner Won SEECS Social Hackathon against 50 other teams. Developed Android app that helps students prepare for universities' competitive entrance exams.	2015

GRANTS

Scaling Bitcoin Travel Subsidy	2017
Netsys'17 Student Travel Grant	2017
ACSAC Student Conferenceship Award	2016
Debconf'17 Grant	2017