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, C++, Python, Kotlin, Java, JavaScript, PHP
Mobile Development:	Android SDK & NDK
Operating Systems:	Linux, Windows, macOS
Web Development:	AngularJS, Bootstrap
Big Data:	Spark, Hadoop
Database:	MySQL, CouchDB
Misc:	Gradle, AWS EC2, Docker, Bash, LaTeX, Git

EXPERIENCE

eBay *Software Engineer III*	Sep 2021 - Present
Software Engineer II	June 2020 - Aug 2021

Part of the internal tools team, I write tools that make Android testing faster and more effective. One project I spearheaded reduced Pull Request testing duration by ∼40%. This project involved writing tools from scratch, contributing to public open-source projects and integrating into large codebases.

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.
Published paper in FC'21: `https://asad.co/pub/ethereum-financial-crypto.pdf`

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.

AWARDS

Cisco Global Cybersecurity Scholarship	2016

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

GRANTS

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