

# ASAD SALMAN

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## EDUCATION

<b>Northeastern University</b> Masters in Cybersecurity <i>Selected coursework:</i> Distributed Systems, Software Vulnerabilities, Network Security	Boston, MA Sep 2018 - May 2020
<b>National University of Science and Technology</b> Bachelors in Software Engineering	Islamabad, Pakistan Sep 2014 - June 2018

## SKILLS

Programming Languages:	Kotlin, Java, Scala, Python, JavaScript, PHP, C++, C,
Mobile Development:	Android SDK
Operating Systems:	Linux, macOS, Windows
Web Development:	AngularJS, Bootstrap
Big Data:	Spark
Database:	MySQL, CouchDB
Misc:	Bazel, Gradle, AWS EC2, Docker, Bash, L <sup>A</sup> T <sub>E</sub> X, Git, Serverless development

## EXPERIENCE

<b>Twitter</b> <i>Software Engineer II</i> As a member of the the Privacy organization at Twitter, I work on compliance automation. I have implemented projects with existing specs and also carved out design & specs for projects from scratch.	March 2022 - Present
<b>eBay</b> <i>Software Engineer III</i> <i>Software Engineer II</i> 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.	Sep 2021 - March 2022 June 2020 - Aug 2021
<b>Northeastern University</b> <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. Published paper in FC'21: <a href="https://asad.co/pub/ethereum-financial-crypto.pdf">https://asad.co/pub/ethereum-financial-crypto.pdf</a>	Sep 2018 - May 2020
<b>NUST - School of EE &amp; CS</b> <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
<b>Google Summer of Code - GNU Project</b> 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.	Summer 2017
<b>Tranchulas</b> <i>Cybersecurity Intern</i> Learnt about penetration testing and application security. Practiced through hacking competitions (CTFs). Also, covered forensics, and lock picking.	Summer 2016

## AWARDS

<b>Cisco Global Cybersecurity Scholarship</b>	2016
<b>Women's Transport Innovation Hackathon Winner</b> Developed Android app that made women's use of public transport safer in Pakistan. The hackathon was sponsored by Toyota and UN Women.	2015
<b>SEECs Social Hackathon Winner</b>	2015

## GRANTS

<b>Scaling Bitcoin Travel Subsidy</b>	2017
<b>Netsys'17 Student Travel Grant</b>	2017
<b>ACSAC Student Conferenceship Award</b>	2016
<b>Debconf'17 Grant</b>	2017