

Faizal Hasanwala

SOFTWARE ENGINEER | APPLICATION SECURITY ENTHUSIAST

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Experience

Microsoft

Hyderabad

SOFTWARE ENGINEER II

September 2022 - Present

- Enhanced the formatting experience by building a taskpane that consolidates all formatting options into a single surface. Fixed regressions in interaction-to-next-paint timing for smoother experience.
- Improved collaboration experience on Excel Desktop by revamping the Version History feature experience, allowing users to view changes made.
- As part of Excel Online's security v-team, led initiatives to improve the application's security posture and identify security gaps.
- Contributed to design reviews, code reviews and security audits.

SOFTWARE ENGINEER

July 2020 - September 2022

- Worked towards improving file open reliability on Excel Online. Improved reliability from 99.30% to 99.49%.
- Worked on improving coauthoring health of Excel Desktop by adding coauthoring support for multiple features.
- Designed, developed, and delivered multiple features while keeping performance and security in mind.
- Regularly monitored telemetry and gathered customer feedback to identify any potential issue.

Payatu

Remote

FREELANCE PENETRATION TESTER

May 2020

- Conducted penetration testing for client's web application.
- Identified critical vulnerabilities such as SSRF, XSS, and IDOR.
- Chained multiple vulnerabilities to gain access to the application's source code and sensitive information.

Microsoft

Hyderabad, India

SOFTWARE ENGINEER INTERNSHIP

May 2019 - July 2019

- Worked on the Microsoft Project team to implement the "Modern Presence" feature, which shows a user's position in a project.
- Explored, tested & implemented various methods to store data in a non-persistent manner while making it available across all replicas of the service.
- Wrote components and their logic to handle parsing, publishing, and displaying of data on UI.

Education

Indian Institute of Technology Roorkee

CGPA 8.663

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

2016 - 2020

Graduated First Division with Distinction

Projects

ARP spoofing detection system

2018

- Implemented active techniques to detect ARP spoofing in minimal time.
- Worked on spoof detection engine.
- Developed a script to generate malicious ARP packets to test the detection engine.
- Applied standard waterfall model. Created the feasibility report, specification documents, and design documents.

SIC/XE Assembler

2017

- Implemented an assembler for SIC/XE in C++.
- Implemented features such as literal handling, expression handling, and program blocks.
- Wrote test cases for the assembler.

Extracurricular Activity

SDS InfoSec

IIT Roorkee

MEMBER, COORDINATOR(AUGUST 2019 - MAY 2020)

September 2016 - May 2020

- Campus group with the goal to promote information security culture within the campus.
- Organized events and talks focused on CTFs and information security.
- Participated in various CTFs as <https://ctftime.org/user/23525> with team <https://infoseciitr.in>.

Skills

Computer Languages C/C++, C#, Python, PHP, JavaScript, TypeScript

Languages Known English, Hindi, Gujarati

Honors & Awards

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|------|---|---------------|
| 2021 | 2nd place in Cyber Security Hackathon organized by Data Security Council of India (DSCI). | India |
| 2020 | Invited to BountyCon 2020, organized by Facebook & Google at Singapore. | International |
| 2020 | 7th rank in WhiteHat Grand Prix qualifiers. Invited for finals at Hanoi, Vietnam. | International |
| 2020 | Hall of Fame - Visma for subdomain takeover | International |
| 2019 | 1st place in India and 6th globally in CyBRICS Finals organized by BRICS countries academia. | India |
| 2019 | 1st place in Brainwaves Cyber Security challenge 2019 organized by Societe Generale. | India |
| 2019 | 3rd place in CTF organized at BSides Delhi 2018 conference. | India |
| 2018 | 1st in India region and 8th Globally in CSAW CTF Finals organized by NYU Center for Cyber Security. | International |
| 2018 | CVE-2018-2936 by Oracle for XSS vulnerability in Oracle Communications Messaging Server. | International |