Amir Hamza

Contact

(816)-372-7479

amir.col6@gmail.com

Links

amirhmz.com

github.com/Hr24612

linkedin.com/in/amir-hamza96

Education

Iowa State University Bachelor of Science Computer Engineering

Graduation

May 2021

CGPA: 2.72

Spring'20: 3.65 Fall'20: 4.00

Skills

Languages

Java, JavaScript, TypeScript, C, Kotlin, and C#

Frontend

Bootstrap, React.js/Redux, Angular.js, and Android SDK

Backend

Spring Boot, Node.js, and .NET

Databases

Microsoft SQL Server, MySQL, and MongoDB

Clouds

AWS, Azure, Heroku, Netlify, and Balena

Security Tools

Burp Suite, OWASP ZAP, NMAP, Netcat, and Metasploit



Application Security Intern - Nelnet Inc.

Remote

The December'20 - Ongoing

Carrying out web penetration testing of company's internal tools and providing quality and assurance to the codebase

Software Developer Intern - Manatt's Inc.

Remote

August'20 - December'20

- Built company's internal financial tool in Angular.js and .NET
- Improved Angular.js response time by 55% through adding lazy loading, pure pipes, and caching values
- Implemented a new testing framework called Cypress into the frontend
- Automated continuous development of an IoT application in Balena cloud

Application Security Intern - Nelnet Inc.

Remote

May'20 - August'20

- Worked with penetration testers to develop a custom Metasploit reverse shell payload in **C#** that bypasses antivirus detection
- Carried out web penetration testing with **Burp Suite** to find web vulnerabilities
- Provided quality and assurance of the codebase and drafted best practices for company's internal tools in ASP.NET
- Contributed to DevSecOps initiatives through the building and integration of unit tests into build pipelines

IT Security Analyst - Iowa State University

Ames, IA

August'19 - May'20

- Carried out web penetration for 300+ websites with Burp Suite
- Drafted reports to list findings, mitigation, and best practices
- Worked with developers to ensure vulnerabilities were addressed

Software Developer Intern, Spreetail Inc.

♥ Lincoln, NE

May'19 - August'19

- Removed reliance on third party dependencies by creating custom features for the inventory tracking **Android** app
- Built REST APIs and wrote unit tests to add new functionality
- Rewrote legacy frontend code from Java to Kotlin

Projects

- Senior Design Project Warehouse Drone: Lead my team to develop a quadcopter to track inventory in a warehouse (C, Java, JavaScript)
- Independent Study IoT Price Tag: Worked under Professor Akhilesh Tyagi to develop a low powered IoT price-tag controlled wirelessly by a MERN stack web app for industry use (C, JavaScript)
- CS309 Final Project Anonymous Discussion Post: An Android and Spring Boot application intended for students to discuss controversial topics anonymously. Awarded the best backend developer in the class (Java)

Leadership

- President Cardinal Space Mining Club: Built a mining robot and lead my team to NASA's Robotics Mining Competition 2019 and stood 4th out of 46 college teams
- President IEEE Student Branch: Arranged company recruiting seminars in Electrical and Computer Engineering department for 400+ club members. Consulted the department chair on strengthening the undergraduate program