# Amir Hamza

## **Contact**

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Iowa State University Bachelor of Science Computer Engineering

Graduation

May 2021

CGPA: 2.72

Spring'20: 3.56 Summer'20: 4.00 Fall'20: 4.00

### Skills 🖔

#### Languages

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

#### 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



Carrying out web penetration testing of company's internal web 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 behavioral testing framework called Cypress into the frontend
- Automated continuous development of an IoT application in Balena cloud

Application Security Intern - Nelnet Inc.



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 vulnerability scanner
- 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