

Amir Hamza



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Social

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Education

Iowa State University
Bachelor of Science
Computer Engineering

Graduation
May 2021

CGPA: 2.70

Spring'20: 3.56 Summer'20: 4.00



Certification

CompTIA Security+



Skills

Security Tools

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

Languages

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

Libraries and Frameworks

Frontend: Bootstrap, React.js/Redux,
Angular.js, and Android SDK
Backend: Spring Boot, Node.js, and
.NET

Databases

Microsoft SQL Server, MySQL, and
MongoDB



Work Experience

Remote Software Developer Co-op - Manatt's Inc.

📍 Brooklyn, IA 📅 August'20 - Ongoing

- Building company's internal financial tools in **Angular.js** and **.NET**

Remote Application Security Internship - Nelnet Inc.

📍 Lincoln, NE 📅 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 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 Software Developer Internship - 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**

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



Projects

- Senior Design Project – Warehouse Drone:** Developing a quadcopter to track inventory in a warehouse (**C, 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