Amir Hamza

Contact

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Social

amirhmz.com

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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 wireless 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