

Amir Hamza



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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



Certifications

Udacity Blockchain Developer
(in progress)

AWS Developer Associate
(in progress)



Skills

Languages

Java, C#, Kotlin, JavaScript, TypeScript,
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

Blockchain

Ethereum, Solidity, and Smart
Contracts



Work Experience

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

📍 Brooklyn, IA

📅 August'20 - Ongoing

- Building 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

Remote Application Security Internship - Nelnnet Inc.

📍 Lincoln, NE

📅 May'20 - August'20

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

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 to the app
- Rewrote legacy code of the from **Java** to **Kotlin** for better performance



Projects

- **Capstone Project – Warehouse Drone:** Developing a quadcopter to track inventory in a warehouse (**C, Java**)
- **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 best backend developer in the class (**Java, MySQL**)
- **Private Blockchain:** A **Node.js** blockchain app that is used to store personalized data and track ownership (**JavaScript**)



Leadership

- **President Cardinal Space Mining Club:** Built a mining robot and lead my team to NASA's Robotics Mining Competition 2019. 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