Zakariya Sattar

Aspiring developer, designer, and engineer

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Education

Michigan State University – *Computer Science, Bachelors*   May 2026, GPA: 3.55

Relevant Coursework: Intro to Computer Science II (C++), Discrete Structures in Computer Science

Qasid Arabic Institute – Amman, Language   June 2022 – June 2023

- Spent a year abroad studying classical and spoken Arabic in Amman, Jordan, achieving a level of ACTFL Intermediate High

Skills

Front-end Development: JavaScript, NodeJS, HTML, CSS, ReactNative. **Object Oriented:** Java, C++. **Linux.**

Experience

Undergraduate Research Assistant – *Networks Lab | MSU*   October 2023 - Present

- Constructed IMS servers on an Android application that tested SIP messaging vulnerabilities
- Presented on data points that were gathered through in-depth analysis of research papers

Software Engineering Intern – *AmeriCloud | Schaumburg, IL*   May - August 2023

- Converted a POS application to Android and Implemented the front-end of a contracting application for AmeriCloud's telecom clients
- Gained skills in Java/Kotlin, React-Native, and Git by working on production grade applications

Projects

Test-Lock – *Web* | GitHub

- Developed a web-app that allows teachers to safely administer exams and quizzes completely online by locking down the browser and preventing any new tabs from being opened/viewed
- Leveraged Google's Firebase and other front-end APIs to limit the usage of backend protocols. Learned how to use JSON to keep organized database structure and how to implement security to protect sensitive data

Trading Algorithm – *Python* | GitHub

- Implemented a Python trading algorithm that leverages level II market data pulled from Alpaca and IEXFinance APIs to autonomously execute buy and sell orders based on bid and ask counts

Niles West Bus App – *Web* | GitHub

- As the president of the app development club, I led the development of a web-app that locates the school buses and displays the data to students. Still in use by school, 350 average users daily