Zakariya Sattar

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Education

Michigan State University – *Computer Science, Bachelors*   May 2026, GPA: 3.61

- Relevant Coursework: Intro to Computer Science II (C++), Discrete Structures in Computer Science, Data Structures and Algorithms, Computer Organization and Architecture

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

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

Skills

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

Experience

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

- Constructed and analyzed IMS servers on Android to detect vulnerabilities in SIP messaging. Achieved successful interjection of doctored voice packets into RTP stream without root access
- Assessed external research sources on a weekly basis to find bottlenecks to diminish and solutions to scale that was presented to upper management and contributed to an increase in team efficacy

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

- Converted a point-of-sale application to Android and led the front-end development of a contracting application for AmeriCloud's telecommunication partners
- Acquired skills in Java/Kotlin, React-Native, and Git while contributing to production grade applications

Projects

Test-Lock – *Web* | GitHub

- Developed a web-app that enabled teachers to safely administer exams and quizzes completely online by locking down the browser and preventing any new tabs from being opened/viewed
- Employed Google 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 use database security to protect sensitive data

Trading Algorithm – *Python* | GitHub

- Implemented a 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, resulting in a success rate of 77%

Niles West Bus App – *Web* | GitHub

- Discovered a flaw in the school bus mapping system and as the president of the App Development Club, I led the development of an app that tracks school buses and displays the data, actively used by 350+ students today