

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

- Configured and analyzed IMS servers on Android systems to detect vulnerabilities through SIP messaging
- Achieved successful interjection of doctored voice packets into RTP streams without root access
- Analyzed and presented four research papers to project leaders to find solutions to efficiently solve team problems that resulted in time savings of >20 hours

Software Engineering Intern – AmeriCloud | Schaumburg, IL

May - August 2023

- Led the front-end development of a contracting application and collaborated with a team of three engineers for AmeriCloud's telecommunication partners
- Converted a point-of-sale application from C++ to Android that is actively used by over 35 restaurants in the Chicagoland area, which resulted in a 70% decrease in system issues
- Acquired skills in Java/Kotlin, React-Native, and Git while working on 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 led the development of an app that tracks school bus locations and displays the data, actively used by 350+ students today