

# Zakariya Sattar

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## Education

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### Michigan State University – Computer Science, Bachelors

Dec 2025, GPA: 3.69

- 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

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

## Experience

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### 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

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### 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 buses and displays the data, actively used by 350+ students today