

# Zakariya Sattar

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## Education

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### Michigan State University – Computer Science, Bachelors

Expected: May 2026, GPA: 3.69

- Relevant Coursework: Intro to Computer Science II (C++), Discrete Structures in Computer Science, Data Structures and Algorithms, Computer Organization and Architecture, Independent Study: DSA for Competitive Programming

## Experience

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### Software Engineering Intern – UST Global | Aliso Viejo, CA

June - August 2024

- Developed a plugin for a major airline using C# and REST APIs to integrate Adobe Magento with Unity, dynamically displaying thousands of results in a VR interface. Also worked on 3D image generation using Blender and Python
- Wrote a Python program for a leading pharmaceutical company that leveraged SciPy and Fourier Transformations to detect glass vial breakage on their production line, resulting in a detection rate of over 70% and an increase in production efficiency

### 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. Presented weekly findings to mentors

### Software Engineering Intern – AmeriCloud | Schaumburg, IL

May - August 2023

- Led the front-end development of a React-Native application for AmeriCloud's telecommunication partners
- Acquired expertise in version control and unit testing while working on a production-grade application

## Projects

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### Quirk Health – Full Stack | [GitHub](#) | [Website](#)

- Developed a Full-Stack web application to search and display hospital data from hospitals throughout the country for pricing and insurance information. Placed in top 10% of Y-Combinator applications for the YC S24 batch
- Used Pandas DataFrame to parse and store large JSON files into a MongoDB database. Through MongoDB querying and serverless functions, achieved retrieval of >1000 results in under two seconds, reducing wait time by 87%. Utilized Geocoding APIs and Geospatial Querying to filter and sort results according to user location

### ZakOS – Operating System, Rust | [GitHub](#)

- Read books on Computer Systems and Operating System development to deepen understanding. Developed a personal operating system in Rust to solidify understanding and explore practical application

### Niles West Bus App – Web | [Website](#)

- 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

## Skills

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