

# MUZAHID OLY

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## WORK EXPERIENCE

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### AMAZON

#### Software Engineer

Detroit, MI

May. 2024 - Present

- Drove the core engineering and development of a cloud-native distributed system using Java, React, AWS, which tracks Amazon's ESG metrics, directly powering the company's annual Sustainability Report, driving adoption to **300+ internal users** in the first year.
- Leveraged Generative AI (Roo) to architect, build, and productionize an automated metric creation and reporting tool (AWS Lambda, S3), eliminating manual data preparation and saving internal teams **over 2000 hours monthly**.
- Developed full-stack features for the internal platform, **designing core APIs** and implementing production **React pages**. Guaranteed stability by deploying integration (Mockito) and end-to-end (Cypress) tests directly within CI/CD pipelines.
- Operated team services through on-call rotations, triaged production issues, drove **Root Cause Analysis (RCA)**, and authored runbooks to improve operational excellence and prevent repeat incidents.
- Authored and critically reviewed **over 50 technical design documents** (HLDs, LLDs, and Operational Readiness Reviews) to encourage system scalability, security, and long-term maintainability standards.
- Mentored and onboarded newer engineers by providing deep system context, conducting detailed code reviews, and fostering a culture of high-quality engineering practices.

### AMAZON

Detroit, MI

#### Software Engineer Intern

May. 2023 - Aug. 2023

- Migrated Amazon's high-revenue Build International Listings website (**used by 100K+ sellers**) from AngularJS to ReactJS, improving maintainability and scalability.
- Utilized React JavaScript and Jest to develop, test, and implement a modern and intuitive front-end design for Build International Listings, resulting in a more user-friendly interface.
- Rewrote backend APIs using Spring Java, **improving response times by 10%** and ensuring seamless integration with the new front-end architecture.
- Collaborated with a cross-functional team of developers, designers, and stakeholders to gather requirements, analyze user feedback, and iterate on design solutions, resulting in a **20% improvement in user satisfaction**.

### CODE313

Detroit, MI

#### S.T.E.M. Engineer Intern

May. 2022 - Aug. 2022

- Developed and delivered programming courses to more than 5 youth education centers across Metro Detroit, effectively imparting valuable coding skills to aspiring learners.
- Contributed to the development of comprehensive computer science curricula encompassing game programming, logic, robotics, and critical thinking, ensuring an educational experience for students.

## EDUCATION

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### WAYNE STATE UNIVERSITY

Detroit, MI

Bachelor of Engineering

Sept. 2020 - May. 2024

Major in **Computer Science**

Cumulative GPA: **3.9/4.0**; Dean's List 2020-2024

Relevant Coursework: Software Engineering, Computer Architecture, Operating Systems, Data Structures & Algorithms

## SKILLS

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**Programming Languages:** Java, TypeScript, JavaScript, Python, C++, SQL

**Frameworks:** React, Spring Boot, JUnit, Jest, Cypress, Mockito

Tools and DevOps: AWS Lambda, S3, DynamoDB, API Gateway, Aurora, IAM, CloudWatch, SQS, SNS, CloudFormation, VPC, SDK, CDK

**Other Tools and Skills:** Git, Generative AI (Cline, Roo, Claude), Visual Studio Code, IntelliJ, OOP, Big Data, Debugging

**Soft Skills:** Leadership, Teamwork, Communication, Cross-functional, Problem Solving, Software Project Management