MUZAHID OLY

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WORK EXPERIENCE

AMAZON   Detroit, MI
Software Engineer   **May. 2024 - Present**
- Led the engineering and development of a cloud-native distributed system (**Java, React, AWS**) designed to track and report Amazon's ESG metrics, resulting in the successful reporting of **over 10,000 metrics** and directly powering the company's annual Sustainability Report.
- Utilized Generative AI (Roo) to architect, build, and productionize an automated metric creation and reporting tool (AWS Lambda, S3, API Gateway), removing manual data preparation and saving internal teams **over 2,000 hours monthly**.
- Developed full-stack features for the internal platform, including designing and **implementing APIs** and production **React pages**, and guaranteed stability by deploying integration (JUnit) and end-to-end (Cypress) tests within CI/CD pipelines, achieving **99% line and branch coverage.**
- Improved operational excellence by leading on-call rotations, triaging and resolving production issues, driving **Root Cause Analysis (RCA)**, and authoring comprehensive runbooks to prevent repeat incidents.
- Drove system quality and technical consistency by authoring and critically reviewing over **50 technical design documents** (HLDs, LLDs, ORRs), ensuring adherence to System Design, scalability, security, and long-term maintainability standards.
- Mentored and onboarded new engineers by providing deep system context and conducting over **500 detailed code reviews**, which fostered a culture of high-quality engineering practices and accelerated team integration.

AMAZON   Detroit, MI
Software Engineer Intern   **May. 2023 - August. 2023**
- Migrated Amazon's high-revenue Build International Listings website, utilized by **over 100K sellers**, from AngularJS to ReactJS, improving maintainability and scalability.
- Utilized ReactJS to develop and implement a modern, intuitive front-end design for Build International Listings, leveraging Jest for robust unit testing to achieve **95% line and branch test coverage** and deliver a more user-friendly interface.
- Refactored 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 - August. 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 over **300 students**.

EDUCATION

WAYNE STATE UNIVERSITY   Detroit, MI
Bachelor of Engineering   **September. 2020 - May. 2024**
Major in **Computer Science**
GPA: **3.8**/4.0; Dean's List 2020-2024
Relevant Coursework: Software Engineering, Computer Architecture, Operating Systems, Data Structures & Algorithms

SKILLS

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), VS Code, IntelliJ, Big Data, Debugging, System Design
Soft Skills: Leadership, Teamwork, Communication, Cross-functional, Problem Solving, Software Project Management