


# MOHAMMED ABUBARS

Ann Arbor, MI

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## Education

**University of Michigan College of Engineering**

*Bachelor of Computer Science*

**Ann Arbor, MI**

*Expected Graduation: December 2024*

## Relevant Coursework

- Human-Centered Software (Swift)
- Software Engineering (Python)
- Web Development (HTML, CSS, JavaScript)
- Computer Organization (C)
- Data Structures & Algorithms (C++)

## Experience

**American Axle & Manufacturing**

*DevOps Engineer*

**Detroit, MI**

*October 2023 – Present*

- Directed the deployment and management of applications using Kubernetes, ensuring scalable and resilient infrastructure to support critical business functions.
- Implemented continuous integration and continuous delivery (CI/CD) pipelines, automating the software release process and reducing deployment times.
- Utilized New Relic to monitor application performance, proactively identifying and resolving issues to maintain optimal system reliability and user experience.
- Collaborated closely with development and operations teams to streamline workflows, enhancing communication and reducing bottlenecks in the deployment process.
- Led the migration of legacy applications to containerized environments, improving efficiency and reducing infrastructure costs.

**American Axle & Manufacturing**

*Software Engineering Intern*

**Detroit, MI**

*April 2022 – October 2023*

- Led the conceptualization and implementation of automated bot processes utilizing UiPath across various departments, encompassing quality, finance, cloud, manufacturing, and beyond, revolutionizing operational efficiency.
- Deployed multiple robotic process automation bots, resulting in a substantial reduction of over 45 hours in day-to-day operational processes, significantly optimizing resource utilization.
- Developed and integrated large data files using advanced data analytics tools like Microsoft Power BI, enhancing real-time decision-making capabilities and leading to an improvement in project delivery times across key departments.
- Integrated Microsoft Power Automate into Microsoft Power Apps for Robotic Process Automation (RPA) purposes, enabling users to initiate automation processes seamlessly through form submissions, thereby enhancing overall workflow automation.

## Projects

**Case Cracker AI** | *React*

- Independently developed an AI-driven web application using React and Next.js to assist users in preparing for case interviews, leveraging API integrations for dynamic content generation.
- Designed and implemented interactive features including a roadmap, flashcards, and mock interviews, enhancing user engagement and learning experience.
- Utilized OpenAI API for generating quiz questions and answers, providing real-time, contextually relevant content for users.
- Employed Firebase as a cloud database for efficient data storage and retrieval, ensuring a seamless user experience.
- Currently in the testing phase, gathering user feedback and performing iterative improvements, with plans to officially launch the application within the next 2-3 months.

## Skills & Activities

**Technical Skills:** C++, HTML, JavaScript, CSS, React, Next.js, Python, UiPath, DevOps, JIRA, Swift, Power BI, AWS, SQL, Snowflake, Excel Macros

**Activities:** Muslim Student Association Mentorship Program Mentee, Muslim Engineering Students of Umich

**Languages:** Fluent in English and Arabic

**Interests:** Football, Food Blogging, Travel, Cars