Ilvas Abdulrahman

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EDUCATION

Michigan State University

Bachelor of Science, Computer Science

Dean's List 5/5 Semesters

Detroit, MI

Graduation: May 2025

Cumulative GPA: 3.92/4.00

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Algorithm Engineering, Web Application Development, Database Systems, Computer Systems, Discrete Structures, Calculus I-III

EXPERIENCE

Detroit, MI Amazon

Junior Software Development Engineer

Oct 2023 – Present

Michigan State University - College of Engineering

East Lansing, MI

Teaching Assistant for CSE 331 - Data Structures and Algorithms

Aug 2023 – Present

- Assisted and reviewed in development of a hash table project to be successfully deployed to 350+ students.
- Enhanced students' algorithmic programming skills by hosting one-on-one guidance through weekly office hours.
- Graded project solutions to assess runtime/space complexity, ensuring optimal algorithmic efficiency.

GE Aerospace Cincinnati, OH

Software Engineer Intern

May 2023 – Aug 2023

- Spearheaded the development of a full stack web application Proof-Of-Concept integrating with existing data ingestion processes for a Dashboard UI within an agile development team, enhancing the system observability for an internal team of 10+ engineers (Vue, Node, js, Express, DynamoDB, Docker, JavaScript).
- Migrated web application to a cloud-native and serverless architecture, enabling live querying from DynamoDB and real-time metrics of data loads in AWS (Python, AWS Lambda, S3, API Gateway, SQS, EventBridge).
- Improved coverage by writing unit and integration tests to validate the functionality of REST APIs that efficiently handle GET and POST requests to store and query data from a DynamoDB database (Python, REST, Pytest).
- Awarded Most Innovative Hack at company-wide hackathon using the MERN technology stack.

State of Michigan DTMB

Lansing, MI

Data Science Student Assistant

July 2022 – *May* 2023

- Developed a program to preprocess text data in over 1500 contracts with an accuracy of 95% through a multilayered approach for further analysis with machine learning models (**Python, NLTK, NLP, scikit-learn**).
- Led a team of 3 to create detailed reports of vendor data using pandas and NumPy to leverage statistical analyses, resulting in improved decision-making and high-performance vendor evaluations (Python, Pandas, NumPy).

PROJECTS

Conversation Translator (Frontend) - Best Beginner Hack at MSU's semester-long Hackathon

Website | GitHub

- Developed a real-time voice translator web application that supports 15 of the most popular languages in the world and deployed to Firebase (React, AWS Polly, Azure, Web Speech API, Firebase).
- Leveraged React hooks for state management and implemented language switching, speech recognition, and integrated speech synthesis and translation capabilities using AWS Polly and the Microsoft Translator Text API.

SuggestMe (Full Stack)

Website | GitHub

- Developed a full stack web application that delivers personalized suggestions based on the latest 10 items in a user's search history and deployed to Render (React, OpenAI API, Flask, Azure MySQL).
- Implemented a REST API utilizing Flask to handle CRUD operations within an Azure MySQL database.

News Aggregator (Backend)

Website | GitHub

- Built a backend web application to aggregate news headlines from multiple sources and deployed to an AWS EC2 instance (Flask, AWS EC2, MySQL, Python, Bootstrap, HTML/CSS, requests, Beautiful Soup, Jinja2).
- Connected to a MySQL database to store headlines parsed from 8 popular news websites using Beautiful Soup.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript/TypeScript, HTML/CSS Technologies: AWS, Vue, Node.is, Express, React, NLTK, Pandas, Git