

Mutaman Alnaseri

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Skills

Languages	Python, Java, Javascript, Typescript, C++, C, C#
Frameworks/Technologies	Docker, Kubernetes, REST API, Apache Airflow, React, .NET
Tools	SQL, CI/CD, Jenkins, Redis, Terraform, GitHub, Azure, AWS, Selenium

Experience

State of Michigan DTMB

Lansing, MI

Software Engineer

May 2024 - Current

- Optimized SQL queries, cutting batch job runtime by 50% using divide and conquer in low-exception cases.
- Automated reporting system for batch job performance, including exceptions, runtime, and data changes.

Anaplan

San Francisco, CA

Software Engineer

January 2023 - August 2023

- Reduced generation of auth0 tokens by 75% through implementing and deploying a new caching layer to go from local to far-near caching (Memcached + Redis) through a no-downtime release.
- Reduced development time of new data connectors through the design of a modular and adaptable caching client based on the new caching architecture.
- Implemented and tested public-facing APIs to enable customer access to new features in the product.

Software Engineer Intern

June 2022 - August 2022

- Reduced caching storage usage by 25% and improved average case of cached token retrieval from 12ms to 7ms by prototyping a redesign of the caching layer to go from local caching to a far-near cache design.
- Improved infrastructure services deployment time from 2 hours to 30 minutes by creating a Jenkins pipeline to automate building services and a Harness CD pipeline to automate deployment and testing to environments.

TechSmith Corporation

Remote

Software Engineer Intern

May 2021 - December 2021

- Boosted developer efficiency by 5% with a cross-platform tool automating environment switching.

University of Michigan

Ann Arbor, MI

Data Analyst Intern

September 2019 - May 2020

- Developed diagrams for climate research on Michigan's Great Lakes by analyzing environmental data with R.

Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science

Graduated December 2022

- GPA: 3.9/4.0
- Course Highlights: Machine Learning, Computer Vision, Software Engineering, UI Development, Full Stack, Robotics, Java, C++, Data Structures and Algorithms, Natural Language Processing, Statistics.

Projects

Facial Emotion Classifier | Python 3.8, Pytorch, Open-CV

- Created a model to classify a facial expression into one of six emotions (anger, fear, disgust, surprise, neutral, and happiness) with an accuracy of 0.535 on the test set after training.
- Analyzed and preprocessed 36,000 images with a 50/25/25 split for training/testing/validation.

ChatUM Social Media Website | React, Firebase, Javascript, HTML, CSS

- Implemented infinite scrolling, user management, following system, feed management, and password encryption (SHA-256 with salting).
- Optimized content creation with server-side and client-side dynamic content to minimize server load.