Mutaman Alnaseri

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Education

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Computer Science and Cognitive Science   *December 2022*
- GPA: 3.85/4.0
- Course Highlights: Machine Learning, Computer Vision, Software Engineering, UI Development, Web Systems, Robotics, Java, Data Structures (C++), Statistics.

Relevant Experience

Anaplan   **San Francisco, CA**
Software Engineer Intern (Platform)   *June 2022 - August 2022*
- Deployed Redis into a Kubernetes cluster to switch from local caching using Memcached to distributed caching which resulted in a 90% reduction in median authentication time among workers.
- Modified a Kubernetes Redis operator to streamline the maintenance of Redis clusters during deployment.

TechSmith Corporation   **Remote**
Software Engineer Intern (C++)   *May 2021 - Dec. 2021*
- Created a cross-platform command-line tool that changes what cloud server environment (dev, stage, live) is used
- Performed documentation and maintenance in relation to minor and major revision releases.
- Implemented a chrome extension to work in coordination with the main product.

University of Michigan   **Ann Arbor, MI**
Data Science Intern   *Sept. 2019 - May 2020*
- Programmed analysis software using R to automatically chart water data of Michigan's Great Lakes over time alongside overlaid rolling averages.
- Uncovered data anomalies in Lake Superior which led to expanded research in regard to how runoff, precipitation, and other variables affect minimum water levels.

University of Michigan   **Dearborn, MI**
Research Intern   *June 2019 - August 2019*
- Produced graphs, diagrams, and figures which resulted in garnering over 500 signatures in support of a petition to bring up air quality issues in a local council meeting.

Projects

ChatUM Social Media Website
- Implemented features such as infinite scrolling, user database management, ability to follow users, managing a feed, and password encryption using sha256 with salting.
- Utilized server-side dynamic content and client-side dynamic content to generalize content creation for all users and to reduce server load on updating the generated pages.
- Coded with flask for the framework, React for the front-end, and SQLite for the database.

Facial Emotion Classifier
- 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.

Additional Skills

- Proficient with Java, Python, C++, C, R, MATLAB, NumPy, SQL, React, Flask, Django, Jinja2, Kubernetes, Docker, Helm, GitHub, Amazon AWS, Microsoft Azure, Firebase, REST APIs, agile, scrum, Kotlin, and Javascript.