

Uthman Momen

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Education

University of California Berkeley GPA 3.79/4.00 *Fall 2019 - Spring 2022*

Major: Computer Science

Relevant Coursework: Data Structures | Efficient Algorithms and Intractable Problems | Computer Architecture | Structure and Interpretation of Computer Programs | Discrete Mathematics and Probability | Cloud Computing | Designing Information Devices and Systems I + II

Experiences

Pandora

Backend Software Engineer Intern *June 2021 - August 2021*

- Incoming intern on the Pandora Personalization Services team focused on engineering new products to improve user experience and consumption

Berkeley Labs Department of Computing Sciences *May 2020 - August 2020*
Research Intern

- Analyzed and manipulated large databases of vehicle movement data
- Implemented data modeling solutions for better visual representations
- Created a friendly user interface for added flexibility when visualizing data

Berkeley Labs Department of Computing Sciences *June 2018 - August 2018*
Research Intern

- Designed and implemented a traffic simulation model using MatSims modeling
- Developed a function that would intake data from the traffic model and return data about the traffic flow and speed
- Built a function to calculate the percentage of autonomous vehicles currently on the road and calculate the effect of traffic

Projects

Fullstack Web App (work in progress) *Winter 2020*

- Currently building a full stack Javascript web application to act as an ecommerce site. Implementing a secure user authentication, cart and ordering system.
- Technologies: MongoDB, Express, React, Node (MERN)

Quizoom - 3rd place project, IBM sponsored track *HackMIT, Fall 2020*

- Built an app to help students and teachers gain more from online lectures. The project uses the IBM Cloud speech-to-text api to transcribe a lecture audio into text then parses the text using RAKE nlp to create personalized quiz questions based on the lecture material.
- Technologies: IBM Cloud, Rake-nltk, Python

BearChat *Fall 2020*

- A cloud hosted social media web application which allows users to make posts and interact with friends. Built using a microservices architecture.
- Technologies: Golang, SQL, Docker, AWS, Python

VersionControl *Spring 2019*

- A version control system built to work just like GitHub. The project can store, update and track files as well as complete merges between file histories.
- Technologies: Java

Technical Skills

Experienced: Java, Python, Golang, SQL, C, Git, Jupyter, Numpy, Pandas, Folium

Familiar: Docker, Spark/MapReduce, Node, MongoDB, RISC-V Assembly