Uthman Momen

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Education

University of California Berkeley   *GPA 3.78/4.00*   *Fall 2019 - Fall 2022*

Major: Computer Science

Relevant Coursework: Data Structures|Efficient Algorithms and Intractable Problems|Computer Architecture|Discrete Mathematics and Probability|Artificial Intelligence|Computer Security| Operating Systems (current)

Experiences

Nvidia   *Summer 2021*

Software Engineer Intern
-   Incoming intern on Nvidia Drive OS team

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

Research Intern
-   Analyzed and manipulated large databases of vehicle movement data
-   Implemented visual data representations and a user interface for customization of the display parameters

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 to return estimates about the traffic flow and speed based on the model's state

DevOps@Berkeley   *January 2021 - Present*

Project Lead
-   In charge of leading a group of students to design and build software to gain development experience

Pioneers in Engineering Robotics   *January 2021 - Present*

Software Developer
-   Currently working on the software team responsible for handling the frontend interface where the students program and control the robot remotely.

Projects

NumC   *Fall 2020*
-   Built a Python-C interface inspired by NumPy which allows users to perform various mathematical functions such as matrix multiplication and fast matrix powering.
-   Implemented cache blocking, parallelism and x86 intrinsic functions for speed optimization.
-   Technologies/Languages: C

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/Languages: IBM Cloud, Rake-nltk, Python

Fullstack Web App (work in progress)   *Spring 2021*
-   Currently building a full stack Javascript web application to act as an ecommerce site. Implementing a secure user authentication, cart and ordering system.
-   Technologies/Languages: MongoDB, Express, React, Node (MERN)

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/Languages: Golang, SQL, Docker, AWS, Python

Technical Skills

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

Familiar: REST, Javascript (React), Node, MongoDB, RISC-V Assembly