

ASHAR FAROOQ

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Education

Massachusetts Institute of Technology

Sep. 2019 – June 2023

Bachelor of Science in Computer Science and Engineering

Cambridge, MA

Relevant Coursework

- Computer Systems
- Python Programming
- Computation Structures
- Software Construction
- Design of Algorithms
- Discrete Math
- Software Studio

Experience

Uliza

June 2023 - August 2023

Software Engineering Intern

Cape Town, South Africa

- Using Python and Natural Language Processing techniques, designed and implemented 10 LSTM models, 14 CNN models, and other model combinations in order to detect local African languages from local audio files, resulting in a best testing accuracy of 99.7%.
- Collaborated with company leadership to produce efficient programs to turn hundreds of hours of human interviews in local vulnerable African languages, such as N|uu, into readable PDF, CSV, and XML formats along with implementing automated translated interview video subtitles for the preservation of near-extinct languages.

Flowcode

June 2022 – August 2022

Software Engineering Intern

New York, NY / Hybrid

- Worked as part of the Activation Engineering Team on a new variant of a feature product designed specifically for improving the conversation rate of college students claiming a Flowcode QR code
- Using Next.js, React.js, and Front-End Web Development Libraries, developed a new feature for showcasing the nearest print stores for a customer in the checkout phase of a Flowcode QR code

Memorang

February 2021 – August 2021

Software Engineering Intern

Remote

- Designed, prototyped, and implemented a Content Management System(CMS) for Memorang's administrative users on their web application.
- Using Next.js, React.js, and principles of Material Design, developed a new feature for displaying plans and bundles of different Memorang's services while engaging 1:1 with company engineers.

Projects

QuickChat | TypeScript, Vue, Heroku

November 2022 - December 2022

- Developed a new chatting platform designed to provide a no sign-in, no sign-up easy setup of a temporary time-constrained chatroom over the web.

CloudDude | React, MongoDB, Node

January 2022

- Designed a game of user-created levels where the user can self-design, create, publish, and play a new level to get a character from start to end with obstacles, jumps, and other game objects.

FireRoad053 | Julia, Jump, Gurobi

May 2021

- Designed a system for MIT students to optimize their 4 year schedule based on their utilities and real-life constraints of MIT's curriculum.

Technical Skills

Languages: Python, JavaScript, TypeScript, HTML, CSS, Basic Stata

Technologies/Frameworks: Git, React, Vue, Next.js, Django, MongoDB, Node, Jest/Mocha Testing

Extracurricular

Teaching Assistant

Spring 2021 – June 2023

MIT's Introductory Python Courses 6.100A, 6.100B, and 6.100L

- Guided students through problem sets on programming fundamentals, such as dynamic programming and recursion, in addition to conducting office hours and teaching recitation sections.