

Qasim Mehmood

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EDUCATION

Lahore University of Management Sciences (LUMS) – BS Computer Science

2020 - 2024

<u>Relevant Courses</u>: *Algorithms, Databases, Software Engineering, Distributed Systems, Blockchain,* Operating Systems, *Computer Architecture, Machine Learning,* Artificial intelligence, *Data Science*.

EXPERIENCE

Sehat-Sanjha - <u>Software Engineer</u> - Part Time

July 2023 - Present

- <u>Sehat Sanjha</u> is a health-care startup using ML to provide a physician's assistant to improve the health care experience digitally by leveraging 100M+ mobile users in Pakistan.
- Despite being the only student in a team of 3 developers, I have introduced numerous features such as event tracking, setting up proxy server, developing landing pages and further enhancements for physician facing webapp.
- **Technologies:** <u>Typescript, React, Redux toolkit, MaterialUI, Graphql, Apollo Server, Mixpanel, DynamoDb, AWS lambda, Serverless, React-testing-library, Jest</u>.

Bookme.pk - <u>Software Engineer</u> - Internship

June 2023 – Aug 2023

- <u>Bookme.pk</u> is Pakistan's largest online ticket selling platform that was able to secure \$7.5 million in Series-A funding round.
- I contributed to airline vertical and made a *Data Mapper* which maps JSON data from different airlines' API into a unified format to be displayed on frontend.
- Technologies: <u>VueJs/NuxtJS</u>, <u>PHP</u>, <u>Laravel</u>, <u>JSON-server</u>.

Center for Speech and Language Tech. (CSaLT) - Web Developer - Part Time

Jan 2023 - May 2023

- <u>CSaLT</u> is a Speech Processing Lab, at LUMS, founded by Dr. Agha Ali, who has been Meta Research Award winner for 3 consecutive years.
- Built a Web App for Speaker Identification ML model, which helps in identifying speakers from given audio recordings. I also designed and deployed a REST API that can be integrated into any system.
- Technologies: Python, FASTAPI, REACTJS, Tailwind, Hugging Face, Github-Pages.

PROJECTS

- Hubhyve | <u>SvelteKit, Tailwind, Pocket Base, Zod, Vite</u>
 Developed a web app for an EdTech startup aiming to connect professional experts with learners all over the world.
 Learners can gain valuable knowledge directly from experienced professionals.
- Speaker Identification | <u>Python, FastAPI ReactJS, Tailwind</u>
 Developed a web interface for a speaker identification ML model, incorporating a <u>REST API</u>. This system efficiently predicts, with an accuracy of 85%, the speaker of a given test audio by leveraging a pool of reference recordings.
- Distributed, Fault-Tolerant Key-Value Store | Golang
 Built a distributed key-value store that achieve consensus and fault-tolerance through Raft (self-implemented).
- Buddy Memory Allocator | <u>C Language</u>
 Implemented a heap memory allocator system by programming my own version of malloc and free calls in C.

PROFESSIONAL SKILLS

- Programming languages: JavaScript, Typescript, HTML, CSS, Python, Go, Haskell, SQL, PHP, C, C++, Solidity, Matlab.
- Frameworks, tools & libraries: ReactJS, Redux toolkit, Svelte/Svelte kit, VueJS/NuxtJS, Material UI, Tailwind, Express, NodeJS, FastAPI, Laravel, Git, GitHub.
- API Technologies: REST API, GraphQL.
- Databases: MySQL, MongoDB, Pocket Base.
- Machine Learning tools: Pandas, Scikit Learn, Numpy, Pytorch, and Matplotlib.
- Cloud & Deployment Tools: AWS EC2, Nginx, Hugging Face, Firebase, GitHub-Pages.

EXTRA-CURRICULAR

LUMS Literary Society – LLS

Sep 2022 - March 2023

- Headed LLS flagship event *Bethak*. It was a monthly event in which people from all over the university were invited to showcase their literary skills.
- Organized and supervised society's orientation for fall 2023, resulting in a record turnout of 115 students.

INTERESTS

• Networks, Computer systems, Chess, Combat Sports, Music (AC/DC all the way).