**Qasim Mehmood**  
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**EDUCATION**  
 **Lahore University of Management Sciences (LUMS)** – BS Computer Science **2020 – 2024**

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

# EXPERIENCE **Sehat-Sanjha -** Software Engineer - Part Time **July 2023 – Present**

# [*Sehat Sanjha*](https://solve.mit.edu/challenges/equitable-health-systems/solutions/59868) 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 UI enhancements for physician facing webapp.

# ***Technologies:*** *Typescript, React, Redux toolkit, MaterialUI, Graphql, Apollo Server, Mixpanel, DynamoDb, AWS lambda, Serverless, React-testing-library, Jest.*

# **Bookme.pk -** Software Engineer - Internship **June 2023 – Aug 2023**

* [*Bookme.pk*](http://bookme.pk) 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:*** *VueJs/NuxtJS, PHP, Laravel, JSON-server.*

**Center for Speech and Language Tech. (CSaLT) -** Web Developer - Part Time **Jan 2023 – May 2023**

* [*CSaLT*](https://www.c-salt.org/) 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*for the modelthat can be integrated into any system.
* ***Technologies:*** *Python, FASTAPI, REACTJS, Tailwind, Hugging Face, Github-Pages.*

# PROJECTS

* **Hubhyve** |*SvelteKit, Tailwind, Pocket Base, Zod,* *Vite* [🔗](https://hubhyve.com/)

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** | *Python, FastAPI, ReactJS,* *Tailwind* [🔗](https://qa5imm.github.io/Speaker-Identification/)Developed a web interface for a speaker identification ML model, incorporating a *REST API***.** This system efficiently predicts, with an accuracy of 85%, the speaker of a given test audioby leveraging a pool of reference recordings.
* **Distributed, Fault-Tolerant Key-Value Store** | *Golang*  
  Built adistributed key-value store that achieve consensus and fault-tolerance through Raft(self-implemented).
* **Buddy Memory Allocator** | *C Language*  
  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/SvelteKit, VueJS/NuxtJS, Material UI, Tailwind,   
  ExpressJS, NodeJS, FastAPI, Git, GitHub.
* **API Technologies:** REST API, GraphQL.
* **Databases:** MySQL, MongoDB, Amazon DynamoDB, Pocket Base.

## Machine Learning tools: Pandas, Scikit Learn, Numpy, Pytorch, and Matplotlib.

## **Cloud & Deployment Tools:** AWS EC2, S3, Nginx, Hugging Face, 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.