Mahodi Hasan

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EDUCATION

Bright Future International   **Doha, Qatar**
HighSchool   *August 2017 - May 2021*
Qatar University   **Doha, Qatar**
BSC in Computer Science, Software Engineering   *August 2021 - December 2025*

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Java, Dart, JavaScript
Libraries and Tools: PyTorch, Sklearn, Pandas, Numpy, Git, Docker, DataScience
Frameworks and Scripts: Flutter, Next JS, React JS, Prisma, Tailwind, HTML, CSS
Databases: Mongo DB, SQL, Firebase, Superbase
Cloud Engineering: Azure, AWS
ML Architectures and NLP Models: CNN, YOLO, Transformers(BERT, LSTM), RAFT, Qwen, LLAVA, Gemini, Claude

WORK EXPERIENCE

Intern
Qafco, Mesaieed, Qatar   *June 2024 - August 2024*
- Network Infrastucture Setup and Management
- Azure Cloud Computing and Service usage
- Cyber Security protocols and management

Full-Stack Developer
SightSense, Doha, Qatar   *May 2024 - August 2024*
- Full Stack cross platform Mobile application development, reduced company cost for planning and managing employees by a total of 40 percent
- Machine learning Model integration, reduced the company's cost to regulate and manage employees by about 30 percent
- GPS Integration allowed company to check where the documents were uploaded from, which would usually be done by on site managers. Expected to reduce on site management cost by 60 percent

PROJECTS

- **Full-Stack Web Development**, Full Stack Banking Web application using Next Js Framework with database integration using mongoDB   Try it!
- **Advanced Data Structure Implementation**, Developed an optimized student management system using a hash table with tree-based storage, integrating BSTs and hash functions with linear probing for efficiency. Implemented GPA-based filtering, highest GPA retrieval, year-wise student count, and ensured data persistence through file storage.   Try it!
- **Full-Stack Mobile Development**, Used Flutter framework and dart programming language to design and build full scale, modular, deployment ready mobile application capable of storing data in both offline and online database. Database integration done using firebase, Authentication done using fireAuth services.   Try it!
- **Machine Leaning**, Using python, Built mutiple machine learning models capable of analyzing, predicting, and plotting graphs.   Try it!
- **Operating systems**, Used operating system concepts to setup virtual machines and write scripts that allow connection and communication between machines over the network using bash and C scripts. Used Java to build full-scale game server and client machines able to seamlessly connect and communicate with server.   Try it!
- **Cisco Network Infrastructure**, Used packet tracer to design and build a full scale network system with DNS, DHCP, Web, and Mail servers. Setup switches and routers to work with Unicasting, Multicasting and Broadcasting over the entire network. Setup firewalls to ensure network security.
- **Database Management**, Designed, built, and managed an industry-grade SQL database with triggers and event-driven automation.

EXTRACURRICULAR ACTIVITIES

- **Event Coordinator** in Fifa World Cup - November 2022 - December 2022
- **Event Supervisor** in AFC - December 2023 - January 2024