Muhammad Hasin Shabbir

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Education

New York University Abu Dhabi (NYUAD)   Abu Dhabi, UAE & New York, USA
B.S. in Computer Science, minors in Applied Mathematics & Data Science   August 2019 - May 2023
GPA: 3.87/4.00
Relevant Coursework: Algorithms and Data Structures, Applied Machine Learning, Networks, Operating Systems, Applied Internet Technology, Parallel Computing, Computer System Organisation, Software Engineering, Projects in Data Science, Database Design & Implementation, Multivariable Calculus, Probability & Statistics, Linear Algebra

Programming Skills

Skilled In: Python, C++ C, JavaScript, React, NodeJS, Express, MySQL, MongoDB, Pandas, scikit-learn, Git
Familiar with: PyTorch, Sqlite, Flask, Heroku, Docker, Kubernetes, Sockets, JQuery, ggplot, Matplotlib

Work Experience

Software Engineer Intern   Jul 2021 - Jan 2022
Manaky   Seattle, USA (Hybrid)
- Led the website's performance optimization resulting in a 15% improvement in website performance by reducing **network payloads**, and fixed dynamic loading of **React** components.
- Integrated 1 new **service worker** and extensive **cache policy** in the **Node** backend to convert the web application to a **Progressive Web App** and initiate mobile app development.
- Worked with a developer team of 5 to integrate **Stripe** payment platform.
- Created a bidding system for the marketplace by using **REST APIs**, **MERN** stack, and extensive **unit testing.**
- Generated 20+ data visualizations and 2 analysis reports on user interactions on the web application using Python and related libraries including **Pandas** and **Matplotlib**.

Full Stack Development Lead   Sep 2022 - Dec 2022
Sawar-e   Karachi, PAK (Remote)
- Led a team of 5 and collaborated with the business development team to conduct **requirement gathering**
- Worked on a Full-Stack product sale and support web application using **MERN** stack and **REST APIs**

Unix Lab Tutor   Jan 2022 - Dec 2022
New York University Abu Dhabi   Abu Dhabi, UAE
- Helped 100+ students with algorithmic problem solving, software development and bug fixes, and training for competitive programming by maintaining 15+ tutoring hours per week and average ratings of 9/10.

Front-end Development Intern   Jun 2021 - Aug 2021
Technovier   Lahore, Pakistan
- Created 4 React-based templates with **Redux**, **Firebase**, and **MaterialUI** to be integrated with server-based and serverless applications.
- Tested 80+ **React** components and **JavaScript** functions for cross-browser compatibility and responsive web design.

Projects

- **Voice ChatGPT:** Web application for audio conversation with ChatGPT built with Flask and ChatGPT API
- **TCP in C:** Simple TCP application with reliable data transfer and congestion control mechanisms
- **NYUAD Course Review:** Full-stack (MERN) application offering a course review system to NYUAD students
- **Medifinder:** .NET Core application to assist with medicinal prescriptions and metadata through QR codes
- **Commodity Price Predictor:** Python application using ML to predict commodity prices in global markets

Awards and Honors:

- **Google Hashcode:** 4th in the UAE, 5th in Pakistan in the Extended Round
- **NYUAD International Hackathon:** Nominated for University Representation

Leadership & Community Involvement

President
Pakistan Students Association, NYUAD
- Initiated a flood relief campaign collaborating with Student Government, Student Affairs, and Dean of Students, and Pakistan Association Dubai.

Vice-President
SEDS Aerospace Club, NYUAD