Zahra Bukhari

(713) 839-6225 ● Houston, TX ● bukhaz99@gmail.com ● LinkedIn ● GitHub

EDUCATION

University of Houston | B.S. in Computer Science, Minor in Mathematics   May. 2025
GPA: 4.0
Relevant Coursework: Data Structures and Algorithms, Discrete Math, Linear Algebra, Operating Systems, Software Design, Data Science and Machine Learning

EXPERIENCE

Software Development Intern   Jun. 2024 - Current
Baylor College of Medicine Office of Research IT | Houston, TX
- Engineered web applications using C#, ASP.NET, Razor Pages, to streamline data management in medical research, conducting 3 code reviews to maintain high-quality standards.
- Constructed a robust SQL database, enhancing retrieval speed by 40% and reducing redundancy by 25%.

Operating Systems Teaching Assistant   Jan. 2024 – May 2024
University of Houston | Houston, TX
- Guided a class of 400 students with topics including process and memory management, and concurrency.
- Critiqued 100s of student C++ program submissions, providing feedback to enhance efficiency.

PROJECTS

Music Library | *SQL, React, Node.js, JavaScript, AWS, Google Storage API, Multer*
- Built SQL database for storing user information, utilizing Google Storage API and Multer for the seamless uploading of 100s of tracks.
- Launched 3 searching, filtering, and sorting features to enable users to discover preference-tailored tracks.

Stellar Scholar | *JavaScript, React, Tailwind CSS, Cloudflare, Open AI API*
- Engineered a gamified educational platform with 4 developers in a competition, winning 4 awards.
- Integrated Pixi.js to create rocket exploration of 8 planets, as well as an educational AI chatbot.

Peak Oil Rate Prediction Model | *Jupyter Notebook, Python, Pandas, Seaborn, Matplotlib*
- Collaborated with a team of 3 to build a peak oil rate prediction model using Python and machine learning.
- Implemented data imputation, resulting in a Root Mean Squared Error of 31, indicating strong accuracy.

Wealth Wise | *JavaScript, MongoDB, React, Node.js, Express*
- Developed a financial tracker web application with a team of 20 developers using MERN Stack.
- Deployed 4 features for expense tracking, budgeting, financial goal setting, and investing.

LEADERSHIP

Fullstack Development Team Lead   Jan. 2024 – Apr. 2024
University of Houston | Houston, TX
- Managed a team of 4 on a fullstack project, leading the deployment and scaling of the application on AWS.
- Executed agile methodologies to manage project timelines, ensuring all 4 deadlines were met.

Corporate Relations Officer   Dec. 2023 - Current
CougarCS organization of University of Houston | Houston, TX
- Orchestrated 3 networking events, fostering connections between members and corporate representatives.
- Negotiated agreements with external entities, contributing to a 15% increase in financial support.

SKILLS

Languages: Python, C++, C#, JavaScript, HTML/CSS, R, SQL
Frameworks: React, Node.js, Express, Next.js, ASP.NET, Razor Pages
Developer Tools: GitHub, Git, Jupyter Notebook, Visual Studio Code, AutoCAD, RStudio, Cloudflare, Linux
Honors: TAMU Hack Winner in 4 Categories, Rice Datathon Winner, Dean's Distinguished Scholars List, Computer Science Merit Scholarship Recipient