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
Coursework: Data Structures and Algorithms, Discrete Math, Linear Algebra, Operating Systems
Honors: TAMU Hack 4 Time Winner, Rice Datathon Winner, Dean's Distinguished Scholars List, Computer Science Merit Scholarship Recipient

EXPERIENCE

Software Development Intern   Jun. 2024 - Current
Baylor College of Medicine Office of Research IT | Houston, TX
- Developed web applications using C#, ASP.NET, Razor Pages, and MVC to streamline data management in medical research.
- Designed SQL databases to support data visualization and analytics for research purposes.
- Conducted code reviews to maintain high-quality standards and foster collaboration within the development team.

Operating Systems Teaching Assistant   Jan. 2024 – May 2024
University of Houston | Houston, TX
- Guided a class of 400 operating systems students on a team of 3 teaching assistants.
- Evaluated and critiqued student code submissions, providing feedback to enhance program efficiency.
- Responded to 90% of student inquiries within a 24-hour period, ensuring timely resolution and support.

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.
- Optimized communication with technological solutions, achieving a 40% faster response time.
- Negotiated agreements with external entities, contributing to a 15% increase in financial support.

PROJECTS

Music Library | *SQL, React, Node.js, JavaScript, AWS*
- Built SQL database for storing information, employing queries for data management and retrieval.
- Deployed 4 features for expense tracking, budgeting, financial goal setting, and investing.
- Implemented search, filtering, and sorting to enable users to discover music tailored to their preferences.

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 frontend to create an immersive rocket exploration experience and 5 engaging minigames.
- Optimized website deployment by 19% and integrated advanced educational AI chatbot using Cloudflare.

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.
- Employed one-hot encoding for effective feature engineering in preparation for modeling.
- 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.
- Improved user overspending by 9% and outstanding debts by 15% on average.

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