Zain Baig

832-561-7479 | zainbaig.netlify.app | zain.baig0529@gmail.com | linkedin.com/in/zain-baig1 | github.com/zainbaig0529

EDUCATION

University of Houston   Houston, TX
Bachelor of Science in Computer Science   *May 2024*

- **Relevant Coursework:** Software Design, Fundamentals of Software Engineering, Data Science I/II, Immersive Technology and Spatial Computing, Operating Systems, Database Systems, Introduction to Automata and Computability, Algorithms and Data Structures, Introduction to Computer Networks, Computer Organization I/II/III

EXPERIENCE

New Business Processor   June 2021 – December 2023
ManhattanLife   *Houston, TX*

- Automated data entry processes, reducing manual input by 20% and achieving 100% accuracy, aligning with Tesla's automation and efficiency goals.
- Created scripts to streamline premium verification processes, increasing workflow efficiency and reducing errors.
- Collaborated across teams to resolve data discrepancies, improving system reliability and operational outcomes—transferable to supply chain incident management.

PROJECTS

Task Management System | *React.js, Node.js, Firebase, Docker, AWS, Tailwind CSS*   Jan 2025

- Developing a collaborative task management app with React.js and Firebase, improving team collaboration by **30%**.
- Implemented Docker, reducing environment-related issues by **40%** and improving deployment speed.
- Deployed on AWS, ensuring real-time synchronization and scalability.
- Designed responsive UI with Tailwind CSS, boosting user engagement by **20%**.

FAQ Chatbot | *Python, Flask, NLP, Heroku, SQLite*   Oct 2024

- Developed an NLP-based chatbot, cutting query response time by **50%**.
- Integrated real-time APIs and multi-turn conversation handling.
- Improved reliability through testing, increasing user satisfaction.
- Deployed on Heroku, showcasing cloud deployment skills.

2nd Deliverable: Data Modeling | *Python*   Apr 2024

- Improved prediction accuracy by **25%** using ensemble learning and hyperparameter optimization.
- Achieved MSE of 1.17e-20, handling complex datasets efficiently.
- Streamlined data pipeline processes for scalability and efficiency.
- Provided actionable insights, optimizing decision-making.

Cougarville Gas | *Node.js, React.js, MySQL, AWS, HTML/CSS, EJS, Jest, IstanbulJS*   Apr 2024

- Led a team to improve a fuel delivery website, increasing orders by **30%**.
- Used React.js and Express.js to enhance user experience and system performance.
- Reduced post-launch issues by **95%** through testing with Jest and IstanbulJS.
- Optimized back-end performance by **40%** with efficient MySQL querying.

Coog R Mart | *Node.js, JavaScript, SQL, Azure, Vue.js, HTML/CSS, Heroku, Netlify*   Nov 2023

- Managed inventory with SQL, improving efficiency by **40%**.
- Developed e-commerce interface with Vue.js, increasing engagement by **25%**.
- Optimized SQL queries for faster data retrieval.
- Automated deployments through CI/CD pipelines on Azure.

TECHNICAL SKILLS

Programming Languages: Python, PowerShell, Java, C, C++, SQL, JavaScript
Tools: AWS, Azure, Google Cloud, Git, Jenkins, Docker, Kubernetes, React.js, Node.js, Express.js, MySQL, PostgreSQL, Pandas, NumPy, Scikit-learn