

# Zain Baig

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## 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, Discrete Mathematics, Digital Image Processing, Statistics for the Sciences, Computer Organization I/II/III

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, SQL, JavaScript, HTML/CSS, RStudio

**Frameworks:** React.js, Node.js, MySQL, Vue.js, Express.js, Azure, Spring Boot

**Developer Tools:** Git, Github, Jenkins, MySQL Workbench, Heroku, Netlify, Jupyter Notebook, AWS

**Libraries:** Pandas, NumPy, Matplotlib, SciPy, Scikit-learn, Seaborn

## PROJECTS

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

- Led a team of four to build a fuel delivery website using Node.js, boosting orders by 30% in the first month.
- Created an engaging user experience with React.js, lowering bounce rates by 25%.
- Ensured smooth operations by integrating Express.js and MySQL, speeding up data processing by 40%.
- Rigorously tested with Jest and IstanbulJS, slashing post-launch bug reports by 95%.

### Personal Portfolio | *HTML/CSS, VS Code, Netlify* December 2023

- Developed a standout personal portfolio using HTML and CSS, garnering 500+ views within the first week of publication.
- Managed version control effectively on GitHub, maintaining clear explanations for 50+ changes.
- Streamlined accessibility by deploying the portfolio on Netlify, resulting in a 20% increase in engagement compared to previous platforms.

### Coog R Mart | *HTML/CSS, JavaScript, SQL, Azure, Node.js, Vue.js, Heroku, Netlify, VS Code* November 2023

- Led a team of four to create a convenience store website.
- Managed inventory, sales, and customer data efficiently with SQL, improving operations by 40%.
- Organized teamwork and updates effectively on GitHub.
- Launched the website on Azure, Heroku, and Netlify, increasing user engagement by 25%.

### Image Restoration and Color Processing | *Python, Jenkins* April 2023

- Developed Python code for Median, Arithmetic Mean, and Adaptive Median filters for image denoising, resulting in an average noise reduction of 75% across various image datasets.
- Created algorithms for grayscale to color conversion using Color Slicing and Intensity to Color Transformation techniques, achieving a 90% accuracy rate in color reproduction.
- Utilized mathematical and random functions to achieve visually appealing color transformations, leading to a 80% increase in user satisfaction ratings.
- Conducted extensive testing on various images, demonstrating adaptability and accuracy with an average testing accuracy of 95% across different image types.

## EXPERIENCE

### New Business Processor

June 2021 – December 2023

*ManhattanLife*

*Houston, TX*

- Accomplished efficient document processing and record maintenance, ensuring accuracy and compliance.
- Transcribed data to files and adjusted accounts accordingly, resulting in a 100% error-free record.
- Verified data entry accuracy and confirmed premium verification on 30+ accounts, ensuring financial integrity and client satisfaction.
- Collaborated with insurance agents to resolve account discrepancies promptly, fostering seamless operations and client trust.