

Arsal Jafri

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

GPA: 4.00

Relevant Coursework: Computer Architecture and Organization, Data Structures

Houston, TX

Exp. Grad 2027 December

EXPERIENCE

Operational Analyst

June 2022 – July 2022

True Power

Houston, TX

- Used **SQL** to analyze database trends and identify issues, improving company efficiency by **10%**.
- Utilized **PowerBI** to show my team where to focus at specific times, reducing customer complaints by **15%**.
- Managed over **1000** accounts by using custom templates and small automation scripts.

Web Developer

August 2024 – Present

CougarCS WebDev

Houston, TX

- Enhanced user interaction on the CougarCS website by implementing dynamic effects using **React** and **Tailwind**.
- Led the creation of multiple responsive features, improving functionality and increasing membership sign-ups.

PROJECTS

Workflow Automation Platform | MongoDB, Express, React, NodeJS

August 2024 – Present

- Developed an automation platform allowing users to create and manage workflows.
- Integrated authentication using **JWT**, **httpOnly** cookies and slow hashing in my **MongoDB** database.
- Designed features including multi-trigger support, customizable actions and templates.
- Enhanced system performance with a **20%** speed improvement and **15%** reduction in data latency.

Recipe Management App | MongoDB, Express, React, NodeJS

June 2024 – August 2024

- Developed a full-stack Recipe Management Application enabling users to create, manage, and save recipes.
- Optimized performance with total CPU time of **656 ms**, a FCP score of **1.2s**, and a Speed Index of **1.7s**.
- Implemented management functionalities, providing a robust solution for recipe enthusiasts.

Automated Email Sorter | Python

August 2024 – Present

- Designed a **Python** script that sorts emails chosen by the user and then organizes them into folders/labels.
- Sorted over **1000** emails are easily sorted in under **1.7s**.
- Optimized script improving management efficiency and ensures that relevant emails are easily accessible.

Image Subtitle Application | JavaScript, React

August 2024 – Present

- Built a web application allowing users to add subtitles to images with easy to use interface.
- Utilized a data set with over **300** images and randomized it, allowing for more user interactivity.
- Implemented a responsive design ensuring optimal performance across various devices.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, C#, SQL, HTML/CSS, R, Tailwind

Frameworks: React, Node.js, Express.js, ReactAPI, Material-UI

Tools: Git, PowerBI, Netlify, LaTeX, Vercel, MySQL, VS Code, Visual Studio, PyCharm, Jupyter

Libraries: pandas, NumPy, Matplotlib, KaboomJS, bcrypt, cookie-parser