Jasmine Baig
Software Developer

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TECHNICAL SKILLS

Languages: Python, GO, Java, C++, C, JavaScript, HTML, CSS, MongoDB, SQL, R, OLAP
Developer Tools and Platforms: Git, Docker, Redis, Netlify, Heroku
Libraries and Frameworks:react.js, pandas, NumPy, Matplotlib, Selenium, scipy, sklearn, pygame

PROJECTS

Latent Semantic Analysis | *Python, Jupyter, numpy, scipy, sklearn, matplotlib, LaTeX*   April 2021
- Produced a Latent Semantic Analysis algorithm for an English Wikipedia Dump text corpus of 490,000 documents in jupyter
- Utilized sklearn to create a sparse matrix representation of the top 10,000 most frequent words from all 490,000 the documents
- Wrote an algorithm to create the Positive Pointwise Mutual Information matrix from the sparse matrix of the top 10,000 most frequent words
- Developed a Matrix Factorization algorithm with Stochastic Gradient Descent from scratch using numpy
- Visualized the top 300 most frequent words among 490,000 documents on a 2D graph using t-SNE

Simple Tetris | *Python, pygame*   Sept 2020
- Created Tetris using Python and the pygame library
- Developed scoring function to compete with ones self or others.
- Expanded options to let players choose multiple difficulties and a scaling difficulty to allow for the game to be more challenging and less monotone.

Real time Chat App | *GO, React.JS, MongoDB, JS, JSX, HTML, SCSS, Redis, Docker*   June 2021
- Created a real time chat using Go for the backend and React.JS for the frontend
- Made use of websockets to allow for instant communication between clients
- Allowed users to speak with large groups of people in public rooms or with a single person in private messages
- Maintained Server and User information using MongoDB
- Applied Redis' Publish-Subscribe pattern to allow for asynchronous messaging and to improve performance and scalability.

EXPERIENCE

Information Technology Support Specialist   Sep. 2018 – August 2021
York University   *Toronto, ON*
- Communicated with managers to set up campus computers used across campus by thousands of students and professors
- Assessed and troubleshooted computer problems brought by students, faculty and staff
- Created and managed tickets regarding client issues

EDUCATION

York University   Toronto, ON
Bachelor of Science in Computer Science   *Expected April 2022*