Shafei Waqar

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TECHNICAL SKILLS

Languages: Python, C/C++, SQL(My), JavaScript, HTML/CSS
Technologies: React, React-Native, Node.js, Flask, PyTorch, Selenium, Git, Figma, Expo

EXPERIENCE

Software Developer   Nov 2024 – Present
PreMedTalk   *Remote*
- Worked on a full-stack blogging platform built with Node.js and Express, incorporating rich text editing and saving blog content as HTML in MongoDB for flexible content management for pre-medical prospective students
- Put emphasis on user experience by revamping the platform's design and implementing a UI for admin users
- Collaborated with administrators to ensure that the platform's design aligned with overall club objectives, contributing to improved engagements and user experience

Marketing Executive   Sep. 2023 – May 2024
SFU Canadian Cancer Society   *Burnaby, BC*
- Collaborated within a multidisciplinary team of 10+ members to design and develop high-impact graphics, video content, and promotional materials for events, utilizing advanced design and video editing tools
- Coordinated and managed cross-functional projects through the use of collaboration platforms like Slack, Instagram, and Zoom, ensuring effective communication and seamless integration between in-person and remote teams
- Produced and executed a viral video campaign that achieved over 150,000 views, significantly increasing cancer research awareness and engagement

PROJECTS

Amazon Review Analyzer | *Python, Flask, PyTorch, Selenium, BeautifulSoup, HTML5, CSS3*   Github
- Developed Amazon Review Analyzer, an end-to-end sentiment analysis system built with PyTorch and Flask, achieving 92.4% validation accuracy and integrating real-time confidence scoring, enabling dynamic assessment of review sentiments
- Fine-tuned BERT model on Amazon reviews dataset, implementing custom preprocessing and achieving 0.939 F1 macro score on a 5-class sentiment classification task, demonstrating high model reliability and performance
- Engineered automated Amazon product page web scraping system using Selenium and BeautifulSoup, and succesfully navigated through Amazon's anti-bot measures
- Built a user-friendly, responsive web interface using modern JavaScript, HTML5, and CSS3, facilitating seamless interaction with the sentiment analysis backend

ExamQBot | *Python, Flask, OpenAI API, HTML5, CSS3, Bootstrap CSS, Javascript*   Github
- Developed ExamQBot, a Flask-based web application leveraging user inputted class notes to automatically generate diverse educational content, including multiple choice questions (MCQs), long answer questions, and interactive flashcards
- Engineered a responsive frontend interface using HTML5, CSS3, Bootstrap 5, and JavaScript, enabling users to seamlessly interact with generated content through clean layouts for MCQs and flip-enabled term-definition flashcards, ensuring an intuitive and engaging user experience across devices
- Successfully integrated OpenAI's GPT-3.5/4 APIs to facilitate advanced natural language generation for educational content, enhancing the versatility and accuracy of generated materials

Soundscape Mixer | *React Native, Expo CLI, Typescript, Javascript, Expo Go*   Github
- Developed Soundscape Mixer, a React Native and Expo-based mobile application that empowers users to mix ambient sounds—such as atmosphere, birdsong, white noise, and crickets—to craft personalized soundscapes for relaxation, meditation, or focus, addressing personal sleep challenges
- Designed an intuitive, nature-inspired interface featuring individual volume sliders, a visual countdown timer with a gentle alarm chime, audio playback with expo-av, and the option to easily add custom sounds for a fully tailored experience

EDUCATION

Simon Fraser University   Burnaby, BC
Bachelor of Science in Computing Science   *Sept. 2023 – May 2027*