

# SHAFEI WAQAR

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## TECHNICAL SKILLS

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

**Technologies:** Bootstrap, React, React Native, Node.js, Next.js, MongoDB, Flask, PyTorch, OpenAI API, Selenium, BeautifulSoup, Cloudinary, VSCode, Figma, Git, Github, Expo

**Relevant Coursework:** Data Structures and Programming, Intro to Software Engineering, Introduction to AI

## EXPERIENCE

### Machine Learning Intern

Aug. 2025 – Present

*Marr Labs (YC W24)*

*Remote/San Francisco, CA*

- Maintained and improved an internal tool for evaluating voice agent performance and latency, boosting startup times by **90%** and expanding it to support a new healthcare customer with enhanced PHI security compliance
- Enhanced an LLM-powered framework for analyzing and categorizing live call transcripts, scaling it to support new customer requirements and improving classification accuracy by **10%**
- Delivered **30+** targeted prompt improvements for agent responses, transcript analysis and evaluation questions, decreasing false positive classifications by **25%** and boosting response accuracy by **15%**

### Software Developer

Nov. 2024 – Present

*PreMedTalk*

*Remote*

- Architected and launched a full-stack **Next.js** blogging platform with rich-text editing and dynamic HTML content storage in **MongoDB**, streamlining content management for pre-medical students
- Revitalized the user interface and built an intuitive admin dashboard, with easy content upload with **Cloudinary**, boosting usability and driving higher engagement
- Partnered with club leaders to align platform features with organizational objectives, resulting in increased user satisfaction and platform adoption

## 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
- Fine-tuned a **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
- Built a resilient web-scraping framework with **Selenium** and **BeautifulSoup**, successfully navigating Amazon's anti-bot defenses to harvest product data
- 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 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 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 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 can easily add custom sounds for a tailored experience

## EDUCATION

### Simon Fraser University

*Bachelor of Science in Computing Science, Minor in Mathematics*

Burnaby, BC

Sep. 2023 – May 2027