Zaki Ahmad

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Education

University at Buffalo *Graduation*: May 2023
B.S., Computer Science *Buffalo, NY*

Skills

Languages: Java, Python, JavaScript/TypeScript, C, R, Bash, HTML, CSS, SQL
Libraries & Frameworks: React, Next.js, Express, TailwindCSS, Flask, NumPy
Technologies: Git, MongoDB, Docker, Linux, Figma

Experience

Web Analytics & Development Intern Feb. 2022 - Aug. 2022
Brandsbyday *Albany, NY*

- Analyzed user behavior and improved under-performing elements of the Brandsbyday website, resulting in a 20% increase in site engagement and a 30% increase in user retention
- Implemented improvements to the website, leading to a 20% decrease in page load time and a 15% reduction in bounce rate
- Translated low/high fidelity mockups into JavaScript and HTML and CSS for Brandsbyday clients, contributing to a significant increase in client satisfaction

Projects

Quantum Quill | React (Next.js), Python (Flask),TypeScript, OpenAI API, TailwindCSS

- Independently developed an innovative web application that leverages OpenAI's GPT API to assist users in crafting haikus.
- Designed a user-friendly interface for real-time AI-generated suggestions
- Developed and deployed a custom syllable counting API using Flask
- Integrated the syllable counting API with the Next.js application to accurately count syllables in user input
- Continuously improved accuracy of both syllable counting and AI-generated suggestion functionality
- Over 270 OpenAI requests were made within 3 days of deploying the application

Predicting Racial Disparities in Law Enforcement Interactions | R, RStudio, ggplot2

- Utilized R to investigate and predict the impact of law enforcement interactions on different racial groups
- Collected, cleaned, and analyzed numerous datasets containing hundreds of records, demonstrating strong data handling skills
- Built a predictive linear model that successfully forecasted the number of Black Americans who would die due to police interactions in 2020, highlighting the capability to construct and apply predictive models
- Presented findings to class peers and faculty, fostering a critical discussion around the societal issue and data science's role in understanding it