Aniket Pratap

858-353-6626 | aniketpx@gmail.com | Linkedin | Github | Website

Education

University of California Irvine 3.82 GPA

Bachelor of Computer Science *Expected June 2024*

Technical Skills

Languages: Python, C, C++, HTML, CSS, JavaScript, SQL, R, Swift
Frameworks: React, React Native, Tailwind, Node.js, Flask, Django, Bootstrap
Developer Tools: Vim, Git, Docker, Firebase, npm, Figma, Tableau, Oracle Analytics Cloud
Libraries: Axios, Pandas, NumPy, TensorFlow, PyTorch, Redux

Experience

NLP Researcher June 2023 - Present

University of California Irvine *Irvine, CA*

- Crafted machine learning models to analyze user intention, which governed a bot to facilitate chat conversations
- Fine-tuned GPT2 using PyTorch and user data to achieve an accuracy of 98% when analyzing user sentiment, leading to refined bot messages and user engagement in focus groups
- Implemented NumPy and vectorization to increase model training speeds by 40%, allowing for a faster iterative training process

Software Engineering Intern June 2022 – Aug 2022

Cordis *San Diego, CA*

- Trained and transitioned 1000 analysts from Tableau to Oracle Analytics by creating a structured web course, which saved $10,000 when compared to third party implementing the training
- Skyrocketed productivity by automating sales mapping of 800 regions using Python, Pandas, and NumPy, preventing manual input of data and saving employees 1 week
- Leveraged Oracle Analytics Cloud and data warehouse to publish 20 dynamic dashboards forecasting profits and highest sellers, increasing customer precision and focus margins to maximize future sales

Projects

ZotAPI | *Python, Beautiful Soup, AWS, Lambda, DynamoDB* December 2023

- Engineered a sophisticated web scraper to extract, parse, and clean comprehensive data from university course listings, enabling the development of a robust API.
- Optimized performance by implementing AWS Lambda, harnessing parallel execution to achieve a remarkable 99% increase in scraping speed through enhanced concurrency. Leveraged DynamoDB to store course data, ensuring seamless and efficient querying capabilities.
- Empowered UCI students by providing a versatile API, resulting in its widespread adoption for diverse projects related to course exploration and development.

CropCube | *Figma, C* May 2023

- Won a $1000 semi-final prize in Irvine hackathon by working with 3 colleagues to develop a vertical farm that automates and innovates gardening and focuses on sustainability

Shell | *C, Linked List, Forks, Pipes* May 2023

- Implemented a Linux-based shell that processes user input, allowing for directory changes, file redirection and creation, and custom color configuration
- Ranked first place in class by developing an efficient unlimited piping system with colleague by interchanging pipes when a process finishes, resulting in a total of 3 pipes rather than n pipes for an unlimited input
- Established linked list and signal handlers to dynamically remove zombie and background processes, which sped execution time of commands

Pokemon Search Engine | *JavaScript, Axios, APIS, Node.js, CSS, HTML* Jul 2022

- Developed a front-end website with JavaScript, serving a REST API with HTML and CSS, which was utilized by UCI's Pokemon community to aid in-game events
- Integrated Node.js and Axios to retrieve information for 1000+ Pokemon, including moves, types, and statistics
- Implemented concurrent promise handling and lazy loading to speed up queries by 90%