Anurag Kar

U.S. Citizen | Atlanta, GA | 929-374-7328 | anurag@anuragkar.dev | www.anuragkar.dev

Education

New York Institute of Technology — New York, NY
Bachelor of Science in Computer Science, 3.68 GPA — *Sep 2021 - Dec 2024*

Technical Skills

Languages: Python, Java, SQL, HTML/CSS, JavaScript, PHP
Tools: MySQL, SQL Server, MongoDB, AWS (RDS/DevOps Guru), Google Cloud, Firebase, Power Platform, Git
Frameworks/Libraries: Flask, Django, React, Node.js, Express.js, Next.js, Bootstrap, BeautifulSoup4, NLTK, spaCy

Experience

Platform Operations Intern — May 2024 – August 2024
Smurfit Westrock — *Atlanta, GA*

- Automated the metrics collection of over 10,000 network and VMWare resources by leveraging the LogicMonitor API with recursive API calls, saving approximately 4 hours of manual spreadsheet entry each month
- Streamlined data extraction across more than 2,500 IBM, Linux, and Windows servers using Fabric for SSH connections and regex for text processing, eliminating the need for manual work
- Implemented a GUI-based metrics data entry system using tkinter and pyodbc, incorporating validation techniques to ensure data accuracy before database insertion
- Built Power BI dashboards with SQL Server data to reflect changes in resource counts due to product end-of-life cycles, providing actionable insights for OKR evaluations
- Designed a proof of concept for AWS DevOps Guru with RDS for MySQL to evaluate the tool's monitoring and detection capabilities, using Python to simulate in excess of 500 concurrent users executing inefficient queries

Projects

Collaborative Travel Planner | *Flask, JavaScript, SQLite, Google Cloud*

- Engineered a Flask-based travel planning application that accurately filters and recommends top 5 locations based on personalized queries and location data
- Constructed a SQLite database with SQLAlchemy to store user itineraries, while implementing Google Sign-In, token-based authentication, and session management for secure user access
- Crafted a location recommendation algorithm by integrating Geopy for geocoding and the Google Maps API to identify top-rated locations, improving accuracy and relevance in location recommendations
- Optimized query results by applying natural language processing with spaCy to filter and extract key nouns and adjectives from user input, improving the relevance and accuracy of search outcomes

F1 Data Analysis Bot | *Python, Google Cloud*

- Developed and maintained a Python-based Discord bot that delivers real-time information and statistics about the Formula 1 (F1) championship to enthusiasts, ensuring dependable hosting and scalability on the Google Cloud Platform with deployment across 26 Discord servers
- Integrated various APIs (Discord, Wikipedia, FastF1, Weather) and used BeautifulSoup4 to streamline data retrieval, delivering real-time F1 updates, telemetry, weather forecasts, and web-scraped images, boosting user engagement in a Discord community
- Achieved significant outreach with bot-generated graphics, garnering over 760,000 views on social media, and was featured on a popular motorsports data analysis channel with over 1,000,000 subscribers

Movie Discovery Web App | *React, Express.js, MongoDB, Firebase*

- Created a movie discovery app using React and the TMDB API, enabling popular movie listings and real-time search displaying up to 20 movie results at a time
- Managed user favorites with MongoDB, utilizing a Express.js backend to securely store, retrieve, and update favorite movies
- Incorporated Firebase authentication for seamless user login, signup, and session management with error handling and redirection