

# Anurag Kar

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## EDUCATION

### New York Institute of Technology

Bachelor of Science in Computer Science 3.67 GPA

New York, NY

Expected December 2024

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, HTML, CSS, JavaScript, MATLAB

**Developer Tools:** SQL Server, MySQL, AWS DevOps Guru, AWS RDS, Google Cloud, MS Power Platform, Git

**Libraries/Frameworks:** Flask, Django, pyodbc, tkinter, Fabric, BeautifulSoup4, Matplotlib, spaCy, JavaFX

## EXPERIENCE

### Platforms Operations Intern

Smurfit Westrock

May 2024 – August 2024

Atlanta, GA

- Automated the metrics collection of over 10,000 network and VMWare resources by leveraging the LogicMonitor API with recursive API calls, improving data retrieval efficiency
- Systematized data extraction across of over 2,500 IBM, Linux, and Windows servers using Fabric for SSH connections and regex for text processing, saving substantial manual effort
- Implemented a GUI-based data entry system using tkinter and pyodbc, incorporating validation techniques to ensure data accuracy before database insertion
- Conducted 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 over 500 concurrent users executing inefficient queries
- Produced detailed reports in Power BI, sourcing data from SQL Server

### IT Student Assistant

New York Institute of Technology

April 2024 – May 2024

New York, NY

- Maintained computers and classroom equipment across campus while troubleshooting technical issues

## PROJECTS

### F1 Data Analysis Bot | Python, BeautifulSoup4, Matplotlib, Google Cloud Platform

Feb 2023 - Present

- 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 19 Discord servers
- Enhanced the Discord community's F1 experience by integrating diverse APIs—including Discord, Wikipedia, FastF1, and Weather API—to deliver real-time race updates, live telemetry, and accurate weather forecasts, thereby enriching user interaction
- Streamlined data retrieval by employing BeautifulSoup4 to web scrape images from the F1 website and driver information from Wikipedia, enhancing user engagement with timely and relevant content
- Achieved significant outreach by using bot-generated graphics to engage over 760,000 individuals on social media, and was featured on a popular motorsports data analysis channel with over 1,000,000 subscribers

### Collaborative Travel Planner | Flask, JavaScript, spaCy, SQLAlchemy, Google Cloud

Sep 2023 - Dec 2023

- Engineered a Flask-based travel planning application with robust user authentication, dynamic location recommendations using Google Maps API, and natural language processing, enhancing user experience by accurately filtering and recommending top 5 locations based on personalized queries and location data
- Strengthened user authentication by adding Google OAuth functionality, simplifying the process and boosting user satisfaction through a more efficient and seamless experience
- Crafted a location recommendation algorithm by integrating Geopy for geocoding and the Google Maps API to identify top-rated locations within a user-defined radius, 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, which significantly improved the relevance and accuracy of search outcomes.
- Constructed a secure password reset system by implementing key phrase validation and strict token-based authentication, which resulted in robust user access control and a significant increase in account security