

Mohammad Bayat

Phone: 917-434-3777 | Email: mbny30@gmail.com | LinkedIn: BayatTheAnalyst | GitHub:/mpaydar

Objective

A dedicated graduate student pursuing a master's in computer science at New Jersey Institute of Technology, skilled in data analytics, machine learning, and full stack development, actively seeking software development internship opportunities.

Education

- **Computer Science M.S** | New Jersey of Technology | Jan 2024-present
- **Computer Science M.S** | Rochester Institute of Technology | August 2023-Dec 2023
- **Computer Science B.A** | Queens College | August 2020- Dec 2022

Skill

- **Programming Languages:** Python, Java, C++, JavaScript
- **Frontend Frameworks:** ReactJS, AngularJS, Vue.js CSS, HTML, Tailwind
- **Backend Frameworks:** TypeScript, Node.js, Django
- **Database Skills and Technologies:** DuckDB, PostgreSQL, SQLite, Firebase, MySQL, SQL Server, SQL
- **Data Analytics Technologies:** Pandas, Numpy, Scikit-learn, Seaborn, Matplotlib, Microsoft Excel
- **Version Control:** Git, GitHub
- **Cloud Technologies:** AWS, Microsoft Azure| Relevant Certification: AWS Cloud Practitioner |Issued: 2021

Experience

Full Stack Developer Intern | DIYVERSITY | Remote | 09/2022 - 10/2022 | **Technologies:** ReactJS, CSS, HTML, Firebase

- Collaborated with the frontend team on the development of a Google Chrome Extension and optimized menu bar navigation using ReactJS, CSS, and HTML.
- Implemented backend connectivity via Firebase for user authentication and managed onboarding processes for new interns.
- Authored and standardized documentation, ensuring streamlined operational processes for the team.

Projects

YouTube Insight Analyzer | **Technologies:** NumPy,Pandas ,TypeScript, React, Next.js, SQLite, PowerBI, CSS, HTML

- Implemented an intelligent search categorization feature that analyzes user queries using core Python.
- spearheaded the development of the web application, utilizing HTML, CSS, and TypeScript to craft a user-friendly interface.
- Employed Next.js and React.js to create a highly responsive and engaging front-end, delivering a seamless user experience.
- Dynamically created category-specific tables in the database, sent HTTP requests to retrieve data about videos in the identified categories and efficiently populated the SQLite database.
- Utilized clustering algorithms, such as K-Nearest Neighbors (KNN), to identify patterns and classify content based on metrics such as likes, views, comments, and other content counts.
- Conducted comprehensive data analysis and leveraged Power BI to create interactive dashboards, providing users with valuable insights into popular YouTube channels.
- Developed prediction models to identify and highlight future YouTube stars, enabling YouTube to target and support these emerging content creators effectively.

NYC Transportation Data Web Application | **Technologies:** Python, DuckDB, SQL, JSON

- Led a collaborative effort with a team of 5 members to conduct thorough background research, identifying key gaps and opportunities in existing research for the project's success.
- Designed and implemented a robust DuckDB Schema, optimizing data storage and management capabilities to efficiently handle a sizable 64 GB dataset sourced from the NYC Taxi Commission.
- Improved the data scraping script to empower users with the ability to select specific data segments for download, significantly enhancing data retrieval efficiency and user experience.
- Leveraged the DuckDB API to craft advanced SQL queries, facilitating in-query data analysis directly within Python files, streamlining data exploration and insights generation.
- Implemented the Pickle module for the storage and sharing of data analysis results, enabling seamless collaboration with fellow team members working on the front-end development of the web application.