

Harshit Panwar

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Education

New Jersey Institute of Technology September 2021 – May 2025
B.S. in Computer Science and Mathematical Sciences, Concentration in Applied Mathematics GPA: 4.0
Albert Dorman Honors College Scholar
Coursework: Data Structures and Algorithms, Database Design and Management, Programming in Linux, Operating Systems, Linear Algebra, Partial Differential Equations, Probability and Statistics

Skills

Languages: Python (NumPy, Pandas, Matplotlib, BeautifulSoup), Java, SQL, C++, C, Bash, HTML/CSS
Cloud: Microsoft Azure (Virtual Machine, Data Factory, Active Directory, SQL Database)
Other: Microsoft Graph API, Tableau Server Client, Office365 API, Apache Impala, BitBucket, Git, Agile

Experience

Data Engineering and Analytics Co-op January 2023 – Present
Johnson & Johnson Bridgewater, NJ

- Refactored legacy code and added functionality to improve classes connecting to Apache Impala and Azure SQL Database
- Automated the weekly refresh of 6 tables through Python scripts, increasing throughput by ~40%
- Migrated data from Excel and Impala to Azure SQL Database using ETL data pipelines in Python and Azure Data Factory
- Implemented and deployed an automated solution leveraging Tableau Server Client and Office365 API on an Azure Virtual Machine, leading to a ~35% reduction in overdue tasks through streamlined alerts to task owners
- Investigated SQL queries to resolve discrepancies between Tableau dashboards/reports published by different teams
- Led a team of 3 co-ops to create an Outlook extension using Microsoft Graph API to suggest training times to users

Undergraduate Research Assistant May 2022 – Present
New Jersey Institute of Technology Newark, NJ

- Analyzed and identified patterns in Strong Thermal Emission Velocity Enhancement (S.T.E.V.E.) to create a peak-finding algorithm using 'SciPy' module
- Used the Vires API to retrieve satellite data and processed 60 million data points to identify temperature spikes
- Improved visual pattern identification for viewers by creating 6 geographic models with temperature spikes using Matplotlib
- Filtered data utilizing a cross-correlation algorithm using SciPy and plotted it for visual inspection

Web Developer April 2022 – Present
Lyra Stem Newark, NJ

- Built and deployed website through Wix with custom HTML and CSS components
 - Embedded code for visuals built through Tableau
 - Promoted communication between company and users by setting up contact forms and a chat feature
 - Developed python scripts to automate modifying and sending emails to potential clients
 - Collaborated with all major stakeholders to maintain website and achieve organizational objectives
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Projects

Banking Website August 2022

- Created a mockup using Flask for a banking website from the user view, implementing the following: Checking accounts, Savings accounts, Stock shares, and User Authentications
- Utilized the 'yFinance' API to retrieve market data and update user portfolio
- Built an SQLite3 database using SQLAlchemy to host updates on relevant account information

BasketballPoints July 2021

- Built a web-scraper with the 'BeautifulSoup' library that summarized career statistics of past/current NBA players

Covid-19 Map July 2020

- Filtered, extracted, and combined relevant data using 'Pandas' framework from 2 datasets on Covid cases and country locations with 100+ metrics
- Mapped the data using 'Folium' package to create visual representation of COVID cases that accurately depicted the proportion of cases in a given geographic location