Vipul H Harihar

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CAREER PROFILE

Dynamic and forward-thinking full-stack developer, excelling in leveraging cloud technologies to deliver high-quality, user-oriented solutions. Proficient in transmuting real-world challenges into innovative digital breakthroughs.

WORK EXPERIENCE

GenTrust Wealth and Assets Management Company   Aug 2022 – Present, New York, NY
Software Engineer
- Revamped legacy code and cloud infrastructure, enhancing scalability and security for 500+ investment platform clients
- Devised automated trade error detection strategies using risk analysis and ETL processes, saving 180 minutes daily for traders
- Re-engineered the client intake system, enhancing complete analysis efficiency by 45%, facilitating better benchmark tracking

NYC Department of Design and Construction   Sep 2022 – Dec 2022, New York, NY
Data Science Research Fellow - Capstone Project Lead
- Utilized 15 GB data to design statistical models to predict carbon emissions for repurposing 70,800 wind turbine blades
- Led a 5-member team to develop a dynamic application for viewing carbon footprints generated by trained ML models
- Demonstrated proficiency in DevOps by deploying app on cloud at zero setup cost within an 8-day timeframe

NewYork-Presbyterian - Children's Hospital, Columbia Medical Center   May 2022 – Jun 2022, New York, NY
Research Assistant
- Engineered medical passport system for 79 cardiac patients, leveraging encryption to ensure data confidentiality on local storage
- Led software development initiatives, mentoring 2 research assistants in application-specific coding, and debugging

IBM   Feb 2020 – Aug 2021, Bangalore, IN
Application Developer - Full Stack Engineer
- Key contributor in the entire pre-accounting module migration to RedHat cloud, contributing to a 33% cost reduction in 8 months
- Optimized 8 data flows in same module using Java and SQL, resolving data redundancies, and saving processing time by 2 hours

Indian Roads Safety Campaign: Solve, MRTH- Government of India   Jul 2020 – Dec 2020, Dehradun, IN
Data Science Engineer Intern
- Empowered the safety of over 16,000 commuters by devising road safety application for a non-government organization
- Managed a team of 4 during COVID-19 in developing real-time data-driven models to identify 7 accident-prone areas in the city

Oil and Natural Gas Corporation Limited   May 2019 – Jun 2019, Dehradun, IN
Big Data Engineer Intern
- Executed ethical scraping on 10 GB of data from 5 news websites using Python and conducted big data processing on Hadoop
- Built 5 data pipelines that enabled the 5 membered media team to publish targeted posts based on extracted insights every week

EDUCATION

Columbia University   Dec 2022, New York, NY
Master of Science in Data Science, GPA: 3.6
Courses: Advanced Algorithms, Applied Machine Learning, Deep Learning, Computer Systems, Data Analytics & Visualizations
Honors: Department Representative, PDL Fellow, Best Data Science CA Award 2022 & 2023, Golden Graduate Marshal 2023

DIT University   May 2020, Dehradun, IN
Bachelor of Technology in Computer Science & Engineering, GPA: 9.62
Specialization in Big Data Analytics
Courses: Software Engineering, Artificial Intelligence, Relational Databases, Data Science, OOP, Engineering Mathematics
Honors: Computer Science Topper Gold Medal, University Bronze Medal 2020, Annual Academic Excellence Scholarships

SKILLS

- **Languages:** Python, SQL, Java, JavaScript, Object Oriented Programming, C++
- **Technologies:** React, Node.js, Frontend Development, MVC Architecture Frameworks, Backend APIs, CI/CD, Flask, Spring boot
- **Data Engineering:** Data Pipelines, ETL, Databricks, AWS, RedHat, OLAP, Cloud Data Warehouses (Google BigQuery)
- **Data Science:** Regression, Classification, Random Forests, Sampling, NLP, Quantitative Analysis, Image Processing
- **Data Visualization and Reporting:** Matplotlib, Seaborn, ggplot2, Plotly.js, Power BI, IBM-Cognos, Tableau, Highcharts.js