

# 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

<b>GenTrust Wealth and Assets Management Company</b> <i>Software Engineer</i>	Aug 2022 – Present, New York, NY
<ul style="list-style-type: none"><li>• Revamped legacy code and cloud infrastructure, enhancing scalability and security for 500+ investment platform clients</li><li>• Devised automated trade error detection strategies using risk analysis and ETL processes, saving 180 minutes daily for traders</li><li>• Re-engineered the client intake system, enhancing complete analysis efficiency by 45%, facilitating better benchmark tracking</li></ul>	
<b>NYC Department of Design and Construction</b> <i>Data Science Research Fellow - Capstone Project Lead</i>	Sep 2022 – Dec 2022, New York, NY
<ul style="list-style-type: none"><li>• Utilized 15 GB data to design statistical models to predict carbon emissions for repurposing 70,800 wind turbine blades</li><li>• Led a 5-member team to develop a dynamic application for viewing carbon footprints generated by trained ML models</li><li>• Demonstrated proficiency in DevOps by deploying app on cloud at zero setup cost within an 8-day timeframe</li></ul>	
<b>NewYork-Presbyterian - Children's Hospital, Columbia Medical Center</b> <i>Research Assistant</i>	May 2022 – Jun 2022, New York, NY
<ul style="list-style-type: none"><li>• Engineered medical passport system for 79 cardiac patients, leveraging encryption to ensure data confidentiality on local storage</li><li>• Led software development initiatives, mentoring 2 research assistants in application-specific coding, and debugging</li></ul>	
<b>IBM</b> <i>Application Developer - Full Stack Engineer</i>	Feb 2020 – Aug 2021, Bangalore, IN
<ul style="list-style-type: none"><li>• Key contributor in the entire pre-accounting module migration to RedHat cloud, contributing to a 33% cost reduction in 8 months</li><li>• Optimized 8 data flows in same module using Java and SQL, resolving data redundancies, and saving processing time by 2 hours</li></ul>	
<b>Indian Roads Safety Campaign: Solve, MRTTH- Government of India</b> <i>Data Science Engineer Intern</i>	Jul 2020 – Dec 2020, Dehradun, IN
<ul style="list-style-type: none"><li>• Empowered the safety of over 16,000 commuters by devising road safety application for a non-government organization</li><li>• Managed a team of 4 during COVID-19 in developing real-time data-driven models to identify 7 accident-prone areas in the city</li></ul>	
<b>Oil and Natural Gas Corporation Limited</b> <i>Big Data Engineer Intern</i>	May 2019 – Jun 2019, Dehradun, IN
<ul style="list-style-type: none"><li>• Executed ethical scraping on 10 GB of data from 5 news websites using Python and conducted big data processing on Hadoop</li><li>• Built 5 data pipelines that enabled the 5 membered media team to publish targeted posts based on extracted insights every week</li></ul>	

## EDUCATION

<b>Columbia University</b> <i>Master of Science in Data Science, GPA: 3.6</i>	Dec 2022, New York, NY
<b>Courses:</b> Advanced Algorithms, Applied Machine Learning, Deep Learning, Computer Systems, Data Analytics & Visualizations	
<b>Honors:</b> Department Representative, PDL Fellow, Best Data Science CA Award 2022 & 2023, Golden Graduate Marshal 2023	
<b>DIT University, School of Computing</b> <i>Bachelor of Technology in Computer Science &amp; Engineering, GPA: 9.62</i>	May 2020, Dehradun, IN
Specialization in Big Data Analytics	
<b>Courses:</b> Software Engineering, Artificial Intelligence, Relational Databases, Data Science, OOP, Engineering Mathematics	
<b>Honors:</b> Computer Science Topper Gold Medal, University Bronze Medal 2020, Annual Academic Excellence Scholarships	

## SKILLS

- **Technologies:** Python, SQL, Java, React, Node.js, Frontend, MVC Architecture Frameworks, Backend APIs, CI/CD, Flask, Spring
- **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