

Vipul H. Harihar

+19172145091 | vhh2105@columbia.edu | github.com/virsalaan | [LinkedIn/vipulhharihar](https://www.linkedin.com/in/vipulhharihar/) | [Portfolio](#) | [Certifications/vipul](#)

CAREER PROFILE

A dynamic full-stack developer with 3+ years of experience, delivering high-quality, user-centric solutions using cloud technologies, and translating real-world needs into digital innovation

PROFESSIONAL EXPERIENCE

GenTrust

New York, NY

Software Engineer (formerly Software Engineer Intern)

Aug 2022 - Present

- Optimized GenTrust's Investment Platform by streamlining AWS infrastructure over a 4-month period, boosting scalability, and increasing security for more than 350 clients, completing the project 2 months prior to deadline
- Devised robust strategy for bucketing trade error detection, resulting in significant time savings of 2.5+ hours daily for Traders
- Developed AI system automating quality reports, eradicating manual labor, boosting clients benchmark tracking for 15 Advisors

NYC Department of Design and Construction

New York, NY

Data Science Research Fellow - Capstone Project Lead

Sep 2022 - Dec 2022

- Utilized 5 GB geospatial 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 footprint predictions generated by trained ML models
- Demonstrated proficiency in AWS DevOps by deploying the application on cloud at zero setup cost within an 8-day timeframe

NewYork-Presbyterian - Children's Hospital, Columbia Medical Center

New York, NY

Data Engineer Research Assistant

May 2022 - Jun 2022

- Engineered a secure medical passport system for 79 cardiac research patients, leveraging encryption to ensure data confidentiality
- Led software development initiatives, mentoring 3 research assistants in application-specific coding and SQL querying

IBM

Bangalore, IN

Application Developer (formerly Java Full Stack Engineer)

Feb 2020 - Aug 2021

- Collaborated with IBM Sweden and played a key role in the migration of the pre-accounting module to RedHat cloud, contributing to significant cost reduction of 33% within 5 months
- Streamlined data flows in the pre-accounting module, resolving thousands of redundancy issues and saving 3 hours per cycle
- Completed 23+ Data Science courses in 32 days, earning IBM's 2021 Golden Employee Award
- Developed Spring Boot-based food delivery app for 29 restaurants, addressing the food crisis during the Corona pandemic
- Spearheaded a 6-member team to create an app dashboard, leveraging RDBMS expertise for precise regression analysis

Indian Roads Safety Campaign: Solve, MRTS- Government of India

Dehradun, IN

Data Science Engineer Intern

Jul 2020 - Dec 2020

- Empowered the safety of over 16,000 commuters by devising a road safety application for a non-government organization
- Managed a team of 4 during Covid in developing real-time data-driven models to identify 7 accident-prone areas in the city

Oil and Natural Gas Corporation Limited

Dehradun, IN

Summer Scholar - Big Data Engineer Intern

May 2019 - Jun 2019

- Scraped open-source data from 5 news websites using Python's packages for 2GB keyword filtering to extract insights
- Performed big data processing on Hadoop for 39 days to extract insights enabling the media team to publish targeted posts

EDUCATION

Columbia University

New York, NY

Master's in Data Science, GPA: 3.57/4.0

Dec 2022

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, School of Computing

Dehradun, IN

B.Tech. in Computer Science & Engineering, GPA: 9.62/10.0

May 2020

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 & CERTIFICATIONS

- Development:** Java, Python, R, React, Node.js, Backend APIs, HTML,CSS, SQL, MVC Architecture Frameworks, Flask
- Technical Skills:** Algorithms, Data Structures, Cloud Infrastructure, ETL, Planning, Reporting, Linux, AWS, and DevOps
- Data Science:** Regression, Classification, Random Forests, Sampling, NLP, Quantitative Analysis-Predictions, Image Processing
- Data Visualization:** Matplotlib, Seaborn, ggplot2, plotly.js, Power BI, IBM-Cognos and Tableau
- Certifications:** IBM 24 Data Science Certifications, Microsoft Azure Cloud Fundamentals, Google Data Analytics