

# Vipul H. Harihar

+19172145091 | [vhh2105@columbia.edu](mailto:vhh2105@columbia.edu) | [linkedin.com/in/vipulharihar](https://www.linkedin.com/in/vipulharihar) | [github.com/vipulharihar](https://github.com/vipulharihar) | [website/vipulharihar](https://website/vipulharihar)

## EDUCATION

### Columbia University, Columbia Engineering

New York, NY

M.S. in Data Science, GPA: 3.6/4.0

Sep 2021 - Dec 2022

**Courses:** Algorithms, Applied Machine Learning, Deep Learning, Statistics & Inferential Modeling, EDAV, Computer Systems

**Honors:** Data Science Department Representative, Professional Development-Leadership Fellow, Distinguished TA, Graduate Marshal

### DIT University, School of Computing

Dehradun, IN

B.Tech. in Computer Science & Engineering, specialization in Big Data Analytics, GPA: 9.62/10.0

Aug 2016 - May 2020

**Courses:** Software Engineering, Artificial Intelligence, Relational Databases, Data Science, OOP, Engineering Mathematics

**Honors:** Computer Science Program Topper Gold Medal, University Bronze Medal, and Academic Recognition Awards (all 4 years)

## SKILLS

- **Development:** React, Angular, Spring Boot, Flask, Node.js, jQuery, Java, Algorithms Design, Complexity Analysis
- **Cloud and Database Management:** AWS (EC2, S3, RDS, CloudFormation), GCP, Azure and MySQL, NoSQL, Oracle, DB2
- **Data Science:** Machine & Deep Learning Frameworks (TensorFlow, Keras, PyTorch), Statistical Analysis (scikit-learn, Python, R)
- **ML and Data Visualization:** (Matplotlib, Tableau), Experimental Design and Analysis, Model Deployment and Optimization
- **Technical Project Management:** Agile Methodologies, SDLC, Stakeholder Management, Team Leadership, Scrum Master
- **Conceptualization Skills:** Requirements Gathering, Prototyping, User Experience Design, Adaptable
- **Communication:** Interpersonal, Cross-Functional Collaboration, Technical Documentation

## PROFESSIONAL EXPERIENCE

### GenTrust Wealth Management Company

New York, NY

Software Engineer (Lead)

Feb 2023 - Present

- Deployed AWS cloud infrastructure for GenTrust's Investment Platform in 3 weeks, boosting scalability security for 300+ clients
- Developed automated email report for stakeholders, enhancing efficiency and real-time access to investment information

Software Engineer Intern

Aug 2022 - Dec 2022

- Spearheaded Tax Loss Harvesting tool development, improved financial outcomes for 260+ clients through effective design
- Conducted an in-depth analysis of the legacy code, identified, and resolved loopholes, optimizing the application's performance

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

New York, NY

Research Assistant and Software Engineer Intern

May 2022 - Jun 2022

- Created a secure passport application for 55 patients in a research study, utilizing digital encryption to ensure confidentiality
- Contributed to medical research and gained valuable experience in software development and cloud computing

### IBM

Bangalore, IN

Application Developer

Feb 2021 - Aug 2021

- Successfully migrated pre accounting module to Red Hat cloud infrastructure, resulting in significant profits within 5 months
- Resolved data duplication issues in Java, saving 182 minutes and streamlining the pre-accounting module and its' data flows

Associate Systems Engineer

Jan 2021 - Feb 2021

- Completed 23+ Data Science courses in 32 days, earning recognition as an IBM Golden Employee in 2021
- Conducted data cleaning and performed 45+ bug fixes in Python, leading to a promotion and enhancing IBM software modules

### Indian Roads Safety Campaign, Solve Foundation

Dehradun, IN

Policy Intern

Jul 2020 - Dec 2020

- Developed a road safety application for a non-government organization, contributing to the safety of 16000+ of commuters
- Utilized descriptive analytics to identify and report 75.86 square miles high-risk accident-prone area for residents

### IBM

Dehradun, IN

Java Full Stack Developer Intern

Feb 2020 - Jul 2020

- Developed a Spring Boot-based food delivery app for 29 restaurants, addressing the food crisis during the COVID-19 pandemic
- Led 5 members team to deliver dashboard, utilizing expertise in RDBMS for accurate regression analysis within a tight deadline

### ONGC, Ministry of Petroleum and Natural Gas, Government of India

Dehradun, IN

Summer Scholar - Big Data Engineer Intern

May 2019 - Jun 2019

- Scraped open-source data from 5 news websites using Python's BeautifulSoup packages for keyword filtering to extract insights
- Pre-processed big data on Hadoop and utilized Big Query (GCP) for 39 days to gain insights on oil and related news