

Vipul H Harihar

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EDUCATION

Columbia University

Master of Science in Data Science, GPA: 3.6/4.0

New York, NY

Dec 2022

- Applied Machine Learning, Deep Learning, Computer Systems, Advanced DBMS, Advanced Data Structures and Algorithms Analytics
- Department Representative, PDL Fellow, Best Data Science CA Award 2022 & 2023, Columbia Golden Graduate Marshal 2023

DIT University

Bachelor of Technology in Computer Science & Engineering, GPA: 9.62/10.0

Dehradun, IN

May 2020

Specialization in Big Data Analytics

- Software Engineering, Artificial Intelligence, Discrete Mathematics, Data Science, Object Oriented Programming, Engineering Economics
- Computer Science Gold Medal & University Bronze Medal Recipient, Received Annual Academic Excellence Scholarship – 3 consecutive years

SKILLS (PROFESSIONAL CERTIFICATIONS AND BADGES)

- Python, Java, JavaScript, SQL, Linux-Shell, Bash, Bootstrap, HTML, CSS
- Flask, React, Angular, Frontend, Model View Controller Architecture, Backend APIs, CI/CD, Spring, Git-Version Control, Tableau
- Data Pipelines, ETL Processes, AWS, RedHat, OLAP, Cloud Data Warehouses (GCP-BigQuery), IBM-Cognos, Power BI
- Regression, Classification, Random Forests, XGBoost, NLP, Time Series, Quantitative Data Analysis, Image Processing
- Team Managing, Web Applications, Full Stack Development, Distributed System Design, Advanced DBMS, Debugging, Testing

WORK EXPERIENCE

GenTrust Wealth and Assets Management Company

New York, NY

Software Engineer (Lead)

Aug 2022 - Present

- Sole ownership of company's entire codebase and tech innovations - full stack engineering and data engineering across all teams in 3 offices
- Revamped entire investment platform app, automating 25+ data pipelines in Python to streamline portfolios for 20+ advisors and their clients
- Designed 3 in-house ML models to swiftly aid advisors in enhancing their client management & responsiveness using AI tools
- Developed Trade Algorithm yielding enhanced strategic securities management with dynamic visual insights for 500+ client's portfolios
- Coded Tax Loss Harvesting system, refining firm-wide tax strategy, and saving the firm more than \$2M in potential tax liabilities per portfolio

NYC – DDC (NYC Department of Design and Construction)

New York, NY

Data Science Research Fellow - Capstone Project Lead

Sep 2022 - Dec 2022

- Utilized 15 GB data to design 3 statistical models to predict carbon emissions for repurposing 70,800 wind turbine blades across New York State
- Engineered a robust full-stack web application, currently administered by NYC-DDC to streamline wind turbines blade repurpose management
- Exhibited DevOps acumen by executing a cost-efficient cloud deployment of this application within an accelerated 8-day delivery schedule

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

New York, NY

Research Assistant and Engineer

May 2022 - Dec 2022

- Led 2 software development initiatives, mentoring fellow 2 research assistants in full stack web application-specific coding, and debugging
- Engineered medical passport system for 79 cardiac patients, leveraging encryption to ensure data confidentiality on local storage
- Devised application with 2 data pipelines that enhanced client-side analysis speed and accuracy without storing any data on any server

IBM (International Business Machines Corporation)

Bangalore, IN

Full Stack Application Developer

Feb 2020 - Aug 2021

- Managed a team of 5 members, migrating client's Pre-Accounting Module in Java to RedHat, realizing a 33% app-hosting cost reduction
- Collaborated with IBM Sweden to optimize 5 CI/CD flows, removing 5K+ data redundancies & reducing data processing time by 65+ minutes
- Coded robust app using Angular, Spring, TypeScript, NodeJS & microservices, achieving a 24.87% faster performance compared to legacy code

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

Dehradun, IN

Software Engineer Intern

Jul 2020 - Dec 2020

- Empowered safety of over 16,000 commuters by devising Spring(Angular) road safety application for a non-profit organization
- Guided a team of 4 during the pandemic in developing real-time solutions to identify and report 17+ accident-prone areas via this application