Vipul H. Harihar

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EDUCATION

Columbia University — New York, NY
Master of Science in Data Science (GPA: 3.60 /4.00) — Dec 2022
Honors: Data Science Department Representative, Professional & Leadership Fellow, Advanced Teacher Assistant (Algorithms Analysis)

DIT University — Dehradun, IN
Bachelor of Technology. in Computer Science & Engineering (CGPA: 9.62 /10.0) — May 2020
Honors: Specialization in Big Data Analytics, University Computer Science Program Gold Medalist & Annual Academic Excellence Scholarship Recipient (Among Top 2% undergraduate students)

SKILLS

Coding Languages: Java, Python, JavaScript, R, SQL, C, C++
Technological Proficiency: Web Application Development, Machine and Deep Learning Modeling, GitHub, Linux Shell
Frameworks: Flask, MVC-Angular, React, Bootstrap, Streamlit, Relational Database Management Systems
Logical Thinking: Problem Solving, Algorithms and Analysis, Data Structures and Data Wrangling, Data Dashboard Qualitative
Data Visualization: Power BI, R, Google Data Studio, IBM Cognos Analytics, ggplot2, matplotlib, PlotlyJS
Professional Licenses: 21 Certification issued by IBM in Data Science, Cloud Computing by Microsoft, 9 Coursera Certifications

PROFESSIONAL EXPERIENCE

GenTrust — New York, NY
Software Engineer Intern — Aug 2022 - Dec 2022
- Migrated existing software application to AWS Cloud Formation (IAAS) on Python 3 version on cloud in 3 months from scratch
- Developed a new trader tool on 'Tax Loss Harvesting' and implementing algorithms including 2 certain trading algo-logics

NewYork-Presbyterian - Children's Hospital, Columbia Medical Centre — New York, NY
Research Assistant — May 2022 - Jun 2022
- Devised secure patient digitally encrypted passport application within 2 months to avoid chaotic diagnosis paperwork
- Hosted application on AWS services within 2 days, making it more accessible by 55 patients for ongoing research study
- Application was adopted by Columbia Medical Centre in December 2022 and research paper is under release in the year 2023

IBM — Bengaluru, IN
Application Developer — Feb 2021 - Aug 2021
- Managed and queried 2 MySQL databases, queried 5500+ records for IBM client on monthly basis to avoid voucher reuses
- Accomplished 47 bug fixes, resolving data duplication issue on IBM Pre-Accounting Module, to clean the databases
- Built scripts in migrating PAM Software to the OpenShift Cloud Platform with 3 Senior Software Developers in IBM Sweden

IBM — Bengaluru, IN
Associate Systems Engineer — Jan 2021 - Feb 2021
- Performed Full Stack Development bug fixes using Java, JavaScript, Data Structures and Algorithms on internal IBM projects
- Completed 21 training certifications on Data Science, Python and Application Development for self-development and studying
- Received promotion within 1st month of joining IBM for excellent performance in the training period itself

Indian Roads Safety Campaign: Solve Foundation-NGO — Dehradun, IN
Policy Intern — Jul 2020 - Dec 2020
- Developed reporting tool to classify 75.86 mi^2 dangerous accident-prone area in Dehradun city (Himalayan Range valley - India)
- Supervised 6 team members to collect data and conduct data cleaning, and its predictive analytics for social project
- Completed social community project during Covid - in 5 months and helped the NGO to operate and help residents

IBM — Dehradun, IN
Java Full Stack Developer Intern — Feb 2020 - Jul 2020
- Created food delivery app in Spring Boot to solve COVID -19 food crisis for 22 restaurants
- Led 5 interns for creating statistics-based dashboard using regression models- linear and logistic in 47 days
- Trained the team to perform complex SQL joins on 20 data tables facilitated regression analysis for project completion

PROJECTS

NYC Department of Design and Construction - Capstone Project *(Web Application)* — Sep 2022 - Dec 2022
- Led a team of 6 to develop 8+ proactive approaches to repurpose 223+ wind blades in NY state using Data Science Research

Columbia University - Academic Projects *(Video Presentation)* — Sep 2021 - Dec 2022
- Trained and Deployed Multi-Classification Fraud Detection model on credit card transactions for more than 12454 records
- Devised Sentiment Analyzer and Emotion Detector on 1 TB data to play song on detected mood based on Deep Neural Networks