Vipul H. Harihar

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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 for Algorithms

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, Problem-Solving, Algorithm 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
- **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 the development of a Tax Loss Harvesting tool, in coordination with 3 teams and resulting in increased profits
- 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 29 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 Beautiful Soup 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