

## VIPUL H HARIHAR

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## PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience designing and deploying infrastructure-grade platforms across finance, healthcare, and government sectors. Independently developed and implemented four mission-critical AI and automation products—Product A, B, C, and D—used daily at a \$5B investment firm. Proficient in full-stack development, secure cloud deployments, distributed systems, and real-time LLM integrations. Columbia MSDS graduate, Forbes 30 Under 30 nominee, and driven systems thinker with a product-first mindset.

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## EDUCATION

**Columbia University**, New York, NY

Master of Science in Data Science, GPA: 3.6/4.0 — Dec 2022

- Coursework: Applied Machine Learning, Deep Learning, Distributed Systems, Advanced DBMS, Advanced Algorithms
- Golden Graduate Marshal 2023 • PDL Fellow • Best Teaching Assistant Award 2022 & 2023

**DIT University**, Dehradun, India

Bachelor of Technology in Computer Science & Engineering, GPA: 9.62/10.0 — May 2020

- Specialization: Big Data Analytics • Gold Medalist • Academic Excellence Scholar (3 years)
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## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL, Bash, HTML/CSS

**Frameworks:** Flask, Angular, Spring, React, Node.js

**Cloud & DevOps:** AWS, GCP (BigQuery), RedHat, CI/CD, Git, Docker

**AI/ML:** NLP, Forecasting, Classification, Regression, XGBoost, LLM APIs (GPT, Claude)

**Data & Visualization:** ETL Pipelines, OLAP, Power BI, IBM Cognos, Tableau

**Other:** Distributed Systems, Full-Stack Architecture, Security & Compliance

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## PROFESSIONAL EXPERIENCE

**GenTrust**, New York, NY

*Chief AI Architect and Lead Software Engineer* — Aug 2022 – Present

- Designed and launched four core AI-powered systems (Product A-D), transforming portfolio oversight, CRM workflows, research automation, and document intelligence
- Built 25+ data pipelines supporting compliance, trading, and tax workflows, saving over \$2M
- Architected secure full-stack systems with real-time LLM integrations and cloud-first deployment strategy

**NYC Department of Design and Construction (NYC-DDC), New York, NY**

*Infrastructure Fellow – Wind Energy Capstone* — Sep 2022 – Dec 2022

- Modeled carbon impact of repurposing 70K+ wind turbine blades in NY State
- Delivered a scalable sustainability planning tool, deployed via cloud platform and now in DDC use

**NewYork-Presbyterian – Columbia Medical Center, New York, NY**

*Research Assistant & Engineer* — May 2022 – Dec 2022

- Developed encrypted medical passport app for pediatric cardiac patients with offline-first capability
- Mentored junior devs in secure clinical tool development for internal hospital use

**IBM, Bangalore, India**

*Full Stack Application Developer* — Feb 2020 – Aug 2021

- Modernized financial infrastructure by migrating core Java modules to RedHat-based microservices
- Cut hosting costs by 33% and streamlined CI/CD processes for global production releases

**Indian Road Safety Campaign (Govt. of India), Dehradun, India**

*Software Engineering Intern* — Jul 2020 – Dec 2020

- Built a full-stack accident risk mapping tool using Angular and Spring, reducing hazards across 17+ zones

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**FLAGSHIP PROJECTS (SOLO-BUILT IN 4 MONTHS | <\$50 INFRA BUDGET)**

- **Product A:** Portfolio oversight and compliance engine with explainable AI
- **Product B:** Generative advisor assistant for investment research, notes, and CRM
- **Product C:** Dynamic document summarizer and analytics dashboard
- **Product D:** Auto-transcription and meeting insights engine linked to CRM workflows

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**CERTIFICATIONS**

- Columbia University PDL Fellow
- IBM Certified Python & Cognos Developer
- Google Data Analytics Professional Certificate – Jul 2022
- Microsoft Certified: Azure Fundamentals – May 2021
- IBM Data Science & Big Data Tracks (20+ badges): Python, Spark, Kafka, Hadoop, Visualization, etc.
- IBM Mastery Awards: AI Analyst, Predictive & Business Intelligence
- [Full Badge Portfolio \(Credly\)](#)