

# Darsh Naresh Jain

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## Education

**University of Virginia**, Charlottesville, VA, United States

Aug 2024 – Dec 2025

Master of Science in Computer Science

GPA: 3.94/4.00

**University of Mumbai**, Mumbai, India

Aug 2019 – May 2023

Bachelor of Engineering in Computer Engineering

GPA: 3.71/4.00

## Professional Experience

**Data Engineering Research Assistant** | UVA Darden School of Business, VA

Aug 2025 – Present

Tech Stack: Python, Machine Learning, Data Engineering, HPC, SLURM, Databricks, Distributed Systems, LLMs, OpenAI API

- Implemented and automated scalable data pipelines processing 10TB+ of raw data, improving overall workflow efficiency by 70%
- Built robust data ingestion and web scraping systems to collect millions of structured and unstructured records
- Integrated LLMs using the OpenAI API to streamline data processing and enable automated insights from large datasets

**Full Stack Development Summer Intern** | Rhombus Power Inc., Palo Alto, CA

May 2025 – Aug 2025

Tech Stack: PHP, CodeIgniter, Node.js, JIRA, Docker, MVC, ReactJS, Apache Airflow, S3, Vault, HPC, SLURM

- Developed a data solution to parse, predict and generate data from active satellites while reducing general runtime by 40%
- Contributed to full-stack development across multiple mission-critical applications, ensuring performance, scalability, and security
- Identified and resolved critical issues in production deployments, improving stability and reliability of applications for clients

**Founding Full Stack Software Developer** | Lab Systems (I) Pvt. Ltd., India

Aug 2023 – Jul 2024

Tech Stack: Blockchain, NextJS, Python, Git, Cloudflare, C++, SQL/NoSQL, Flask, Electron, Solution Design, AWS

- Founding engineer of the Karpuragaurai Development Wing, driving core platform development, and initial technology roadmap
- Architected and implemented a scalable cryptocurrency forensics and disk forensics web applications in a startup environment
- Built User Interface and API services in C++ and Python, enhancing software performance by 70% via multiple optimization
- Developed AI-driven forensic agents to automate evidence analysis, anomaly detection, and investigation workflows
- Lead a Product Development team to optimize workflows and usage of system architecture design to devise solutions for clients
- Streamlined deployment by implementing DevOps, optimizing cloud and Linux servers with network topology and containerization

**Full Stack Software Developer Intern** | Lab Systems (I) Pvt. Ltd., India

Aug 2022 – Jul 2023

Tech Stack: Blockchain Architecture, Linux, Forensics, Solidity, Smart Contracts, Ganache, IPFS, Web3.0

- Gained expertise in cryptocurrency forensics using OSINT techniques, training a team to provide comprehensive forensic services
- Engaged in high profile cases involving over USD 20 million in cryptocurrencies such as Bitcoin in multiple countries

## Skills and Certifications

**Programming Languages:** Python, SQL, NoSQL, GraphQL, JavaScript, C/C++, CSS, Bash Script, SASS, PHP

**Frameworks & Libraries:** Pandas, Polars, Web3, PyTest, Selenium, ReactJS/NextJS, ExpressJS, Bootstrap, Mocha, TailwindCSS

**Development Tools:** Cloudflare, AWS, Docker, MongoDB, Flask, Postman, Git/GitHub, Slack, Elasticsearch, Figma, REST

APIs, Unit Testing, WAF, CI/CD, JIRA, Redis, Azure, Wireshark, Agile, Klee, Infer, Databricks

**Relevant Skills:** Data Structures & Algorithms, OOP, Data Mining, Data Analytics, Operating Systems, Software Engineering, Human Computer Interaction, Project Management, LLM fine tuning, Retrieval Augmented Generation (RAG), AI Agents

## Relevant Projects

**LLM vs LLM Fault Localization Framework** | Tech: C++, Gemma 3 12B, PEFT, QLoRA

[Project Link](#)

- Devised a self evolving LLM framework with fault injection and localization to enable scalable automated debugging
- Generated synthetic C++ programs and fine tuned a twelve billion parameter model with QLoRA, improving bug localization

## Patent

**D Ein Blockchain-basiertes Medizinlogistiksystem (Granted)**

German Patent File No - 20 2023 102 823.3

Date: 19 Sep 2023

Designed a web application for tracking prescription drugs using Blockchain, enabling secure and transparent pharmaceutical supply chain management with improved traceability by 80% and reduced instances of counterfeit drugs in pilot deployments