

# Naman Lalit

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## EDUCATION

### New York University Courant, New York

September 2023 - May 2025

Master of Science, Computer Science

GPA: 3.95 / 4.0

Teaching and Grading Assistant: Operating Systems, Multicore Processors

### National Institute of Technology Hamirpur, India

July 2017 - June 2021

Bachelor of Engineering, Computer Science

GPA: 4.0 / 4.0

## EXPERIENCE

### NYU AI & Predictive Analytics Lab: Machine Learning Researcher, New York, USA

September 2024 - Present

- Building an ensemble **Retrieval Augmented Generation** framework on **LENR** (Low Nuclear Energy), leveraging over **3000** pre-processed articles and integrating outputs from four **LLMs** (ChatGPT, Gemini, Claude, Llama 3).
- Led NYU's **AI and Predictive Analytics** team on the Politics Project, utilizing **NLP** and **predictive analytics** to forecast the 2024 presidential election, featured on CNN News. [\[Link\]](#)

### NYU Secure Systems Lab: Research Assistant, New York, USA

May 2024 - August 2024

- Developed the core functionalities of an operating system (RustPosix) in **Rust** and **C++**, maintaining 100% code coverage and improving system reliability and performance.
- Designed **CI/CD** pipelines backed by **GitHub Actions** and **Docker**, reducing deployment time by 80% and increasing efficiency.

### Salesforce: Software Engineer, Bangalore, India

February 2022 - August 2023

- Pioneered the development of the Benefits Management Portal using the Salesforce tech stack, **Java**, **JavaScript**, and **React.js**, generating over **\$20 million** in ACV.
- Collaborated with cross-functional teams and delivered a feature of automated **PDF** uploads on the **Salesforce** platform using **Java**, **Spring**, and **JUnit**, increasing efficiency for over **100** developers.
- Enhanced customer productivity by **90%** by **fine-tuning** and integrating the **Einstein GPT** bot into the public sector cloud service.

### InfoEdge: Software Engineer, New Delhi, India

July 2021 - February 2022

- Led the back-end development of Report's product, used across the organization by more than **80 members**.
- Boosted revenue by **50%** by developing and deploying interactive dashboards and enhanced features using **HTML**, **CSS**, **Node.js**, **React.js** (**frontend**) and **Flask**, **Python**, **MySQL** (**backend**).
- Automated the processing of over **5000** daily **AWS SQS** events using a **Python** script, storing data in a **MongoDB** database.

## PROJECTS

### Ticker Teller: Stock Price Prediction Platform [\[Link\]](#)

- Engineered a platform using **Taipy** and **Python**, integrating an ensemble **machine learning** model, leveraging **LSTM** outputs and **sentiment analysis** of Wall Street Journal articles, to predict stock prices for **20** companies.
- Leveraged **OpenAI ChatGPT-3.5**, **Lang Chain**, and **Prompt Engineering** to generate news article sentiments, evidence extraction, and LLM explanations of more than **4000** news articles.

### Stock.ai: Retrieval Augmented Generation Application [\[Link\]](#)

- Engineered a **RAG** application tailored for academic research on a dataset of **1,000** stock prediction research articles with technologies including **React.js**, **LLM**, **Prompt Engineering**, and **Docker**.
- Developed an intuitive query-processing system using **Flask** on **Google Kubernetes Engine**; ensured users received prompt access to the most pertinent academic resources while leveraging **ChromaDB** for enhanced content relevance.

### Rust and C++: Qualitative Analysis of Multi-Threaded Languages [\[Link\]](#)

- Conducted a thorough qualitative analysis using the **NVIDIA V100 GPU** on **OpenMP** (C++) and **Rust** across 4 benchmark programs, evaluating performance based on scalability, programmability, speedup, and efficiency metrics.

### Roofline modeling and ImageNet analysis [\[Link\]](#)

- Performed **roofline modeling** of **NVIDIA GPUs** (**A100** and **V100**) using **CUDA** and **PyTorch** on the ImageNet dataset for **ResNet18** and **AlexNet** ML models on NYU HPC servers.

## ACHIEVEMENTS / PUBLICATION

- Awarded **Best Overall Hack**, **Best Healthcare Project**, and two prizes in the **Snap** and **Google** challenge at the Columbia DivHacks '24 hackathon among 300 participants. [\[Link\]](#)
- Published a research paper, **Qualitative Analysis of Text Summarization Techniques**, in Hindawi Journal that performed analysis of 5 text summarization techniques using **Python** and **Machine Learning** with over **4000+** views and around **2500+** downloads. [\[Link\]](#)

## SKILLS

**Languages:** C, C++, Java, Python, JavaScript, Rust

**Databases:** PostgreSQL, MongoDB, AWS DynamoDB, Google BigQuery

**Software:** Node.js, React.js, Express, Flask, Taipy, Spring, TensorFlow, PyTorch, LangChain, JUnit, HTML, CSS

**Cloud & DevOps:** AWS, GCP, CI/CD, Docker, Kubernetes, Git, Linux

**Others:** Gen AI, LLM (Large Language Models), Redis, Salesforce, SnapAR, Lenstudio

**Coursework:** Multicore Processors, Cloud Computing, Data Science, Machine Learning, AI, Predictive Analytics, Operating Systems