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
Courses: Predictive Analytics, Cloud and Machine Learning, Data Science, Multi-Core Processors

National Institute of Technology Hamirpur, India **July 2017 - June 2021**
Bachelor of Engineering, Computer Science GPA: 4.0 / 4.0
Courses: Software Engineering, Data Structures and Algorithms, Machine Learning, Operating Systems

Technical Skills

Languages: C, C++, Java, Python, Javascript, HTML/CSS, OpenMP
Databases: SQL, PostgreSQL, MongoDB, AWS DynamoDB, Google Big Query, Chroma DB
Frameworks: Salesforce Omnistudio, LWC, Nodejs, Flask, Spring, React, Express, Taipy, REST API, Prompt Engineering, LangChain
Tools: Git, Github, Redis, Junit, Selenium Webdriver, Perforce, Docker, Kubernetes, A/B Testing, Linux, GPU Programming
Cloud Services: Amazon Web Services, Google Cloud Platform
Machine Learning: Deep Learning, Gen AI, Linear Regression, NLP, Tensorflow, Sckit-learn, Keras, Pytorch, Matplotlib, Pandas

Experience

Salesforce: Software Engineer, Bangalore, India **February 2022 - August 2023**
- Integral part of a **5-member team** in the development of the Benefits Management Portal built using **Salesforce Omnistudio, Experience Cloud, LWC, Javascript, React, Java, and Spring**.
- Collaborated with the cross-functional teams and delivered a generic functionality of automated PDF upload on the Salesforce platform upon license activation using **Java, Spring, and Junit**, used by **100+ developers**.
- Spearheaded feature discussions, successfully shipped multiple key features, authored comprehensive documentation and ensured quality with rigorous unit and functional testing.

InfoEdge: Software Engineer, New Delhi, India **July 2021 - February 2022**
- Led the development of a product's backend using **Flask, Python, and MongoDB**, which was utilized by an internal team of **60+ members,** and additionally integrated many AWS services, including **SQS, SES, DynamoDB, and S3**.
- Built interactive dashboards, created REST APIs, and developed multiple features for the primary offerings, utilizing frameworks such as **HTML**, **CSS**, **Javascript, Node.js, React, Flask,** and **MySQL,** resulting in a **50% increase in revenue**.

CRED: Backend Engineer Intern, Bangalore, India **January 2021 - July 2021**
- Implemented a functionality that reduced Redis memory usage from **95 to 50 percent** by automating the task of deleting unused raffle tickets for a game.
- Streamlined and managed the migration of **REST APIs** from one service to another while overseeing the entire **end-to-end deployment** process using **Java/Spring.**

BluSense Technologies: Backend Engineer Intern, New Delhi, India **May 2020 - July 2020**
- Designed REST APIs using **Flask and Python**, wrote complex **SQL queries on Google Big Query**, and optimized query response time, reducing it from **200 ms to 20 ms** by implementing **Celery** for efficient management of asynchronous tasks.

Projects

Ticker Teller - Stock Price Prediction using Time Series forecasting and sentiment analysis
- Developed an ensemble **Machine Learning** model that predicts the stock price of **12 companies** based on the output of **LSTM** and **sentiments** of the news articles from the Wall Street Journal.
- Leveraged **OpenAI ChatGPT-3.5, LangChain, and Prompt Engineering** to generate news article sentiments, evidence extraction, and LLM explanations of more than **4000**+ news articles.
- Designed a Python script that uses the **Vantage API** to retrieve the companies' stock prices going back two years.

Stock.ai - Retrieval Augmented Generation recommendation system
- Engineered a **RAG recommendation system** designed for the domain of academic research using **1000** articles on stock prediction using Large Language Model (LLM), ChromaDB, and Prompt Engineering.
- Deployed a **Flask** application on **Google Kubernetes Engine**, which takes in a user query and returns the **top 3** similar articles, publication links, and a brief summary using **ChromaDB's** vector embeddings.

Rust and OpenMP - Qualitative Analysis
- Leveraged **NVIDIA V100 GPU** to perform a comparative analysis of **OpenMP and Rust** for **parallelism** on 2 benchmark programs and compared their performances on 5 different metrics like Scalability, Programmability, Speedup, etc.

Research Publication

Qualitative Analysis of Text Summarization Techniques and Its Applications in Health Domain
- Co-authored a research paper published in the reputed Hindawi Journal that performs qualitative analysis of 5 different text summarization techniques using Python and Machine Learning with over **4000+ views** and around **2500+ downloads**.