Neel Jignesh Gandhi, Software Engineer

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EDUCATION

New York University — Expected 05/2025
Master of Science in Computer Science – 4/4 GPA — New York City, NY
Relevant Courses: Big Data, Cloud Computing, Data Science, Machine Learning

University of Pune — 08/2017 - 07/2021
Bachelor of Engineering, Major in Computer Engineering – 4/4 GPA — Pune, India

EXPERIENCE

Software Engineer Intern — 06/2024 – 08/2024
EVgo — New York City, NY
Develops and operates electric vehicle (EV) charging networks across the United States

- Worked on migrating financial calculations to **Snowflake**, boosted data accuracy by 35% and enhanced **data management**
- Fortified site sizing and model precision by 20% through **predictive analytics** and robust data models
- Decreased processing time by 50% via efficient **data architecture** design and optimized **ETL workflows**
- Developed a **Streamlit application** to improve data retrieval speed by over 90%, boosting **cross-functional access**
- Designed a **Tableau dashboard** for national market share insights, aiding in strategic decision-making for stakeholders

Software Engineer — 07/2021 - 07/2023
ElasticRun — Pune, India
Provides e-Commerce B2B logistics and distribution solutions facilitating brand expansion into rural India

- Built a scalable **vehicle routing engine** to optimize 150,000+ nation-wide delivery routes, leveraging **graph algorithms** and **geospatial data**
- Achieved 90% compression of road network graphs for **managing Kubernetes bottlenecks** using **efficient ETL pipelines**
- Lowered operational costs by 50% through **data-driven heuristics** for fleet optimization
- Developed a 3D **bin-packing algorithm** with genetic optimization, reducing load/unload time by 55%
- Bolstered data-driven decision making through **150+ SQL reports** uncovering key insights into **operational efficiency**
- Rectified **200+ data anomalies within 48 hours** by innovating a route visualization tool
- Collaborated in an **Agile** environment, working cross-functionally to enhance **user experience** and **resolve project challenges**

Software Engineer Intern — 01/2021 - 04/2021
SoftEdge Infotech — Pune, India
Specializes in implementing AI/ML and cloud solutions for start-ups.

- Created a **Python-based AR filter** using Google's Mediapipe, applying **computer vision** techniques
- Increased frame rate by 23% by porting Python code to C++ with **OpenGL** and **OpenCV**

SKILLS

Languages and Tools: Python, SQL, JavaScript, C, Golang, Docker, Kubernetes, Kafka, Postman, RabbitMQ
Frameworks: Django, Flask, Frappe, Spark, PyTorch, LangChain, HuggingFace, Lark
Database and Cloud: AWS, GCP, MySQL, MongoDB, Snowflake, Databricks, DynamoDB

PROJECTS

LLM-Powered Assistant for Job Applications and Note Querying [GitHub] | GCP, Vertex AI, RAG

- Engineered a **tool integrating Gmail and Notion to automate job application tracking** into a dynamic Kanban board
- Deployed custom **Retrieval-Augmented Generation with efficient embedding management** for handling bottlenecks
- Optimized NLP workflows with Google Cloud Vertex AI, ensuring **seamless data embedding and real-time responses**
- Designed **scalable cloud functions** for synchronized and reliable platform integration capable of supporting 1000 users
- Built a **full-stack solution** using Flask and JavaScript for a robust, user-friendly experience

Real Time Social media monitoring dashboard [Publication] [GitHub] | Flask, ML, NLP, SQL, Rest API, RabbitMQ

- Built a **real-time data streaming** system for monitoring social media, improving data processing speed with Flask
- Achieved 74% accuracy in sentiment analysis using **NLP** and predicted post popularity with 76.54% accuracy

Disk I/O Performance Analysis [GitHub] | C, Linux, Bash, Multithreading

- Conducted disk I/O optimization to achieve read/write speeds of 2031 MiB/s, suitable for **high-volume data needs**
- Assessed cache, system call, and block size impacts on **system performance** for **optimized efficiency**

Next Basket Recommendation System [GitHub] | Python, ML Model, Pandas

- Improved recommendation accuracy with collaborative filtering using **KNN algorithm**, achieving a recall rate of 45%
- Applied **user segmentation** with product category data to enhance recommendation relevance