

# NIYAZ NABI

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## Professional Summary

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Aspiring data scientist with a robust foundation in full-stack development and data analytics, pursuing a Master's in Advanced Data Analytics. Skilled in Python, SQL, and modern web technologies, with a proven track record of building scalable applications and optimizing data-driven solutions. Seeking to apply advanced analytical expertise to solve complex, real-world challenges.

## Education

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### University of North Texas

Expected Graduation: May 2026

*Master's in Advanced Data Analytics*

GPA: 4.0/4.0

Relevant Coursework: Software Engineering, Web Development, Database Management Systems (DBMS)

### Gitam University

Graduation: April 2023

*Bachelor's in Computer Science*

GPA: 8.68/10 (equivalent to 3.5/4.0)

Relevant Coursework: Data Analytics, Data Harvesting, Storage, and Retrieval, Application Deployment

## Technical Skills

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**Programming Languages:** Python, SQL, JavaScript, TypeScript, C

**Web Technologies:** HTML5, CSS, React.js, Next.js, Vue.js, Node.js, Express.js, Flask

**Databases:** PostgreSQL, MongoDB, SQLAlchemy

**Tools:** Git, Postman, Power BI, Tableau, SAS, Excel, Canva, Webflow, Hadoop, Hive, AWS

## Work Experience

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### Vertocity

July 2022 – August 2024

*Software Development Engineer (SDE)*

India

- Designed and developed a **SaaS product** and **full-stack applications** for **data science** initiatives, delivering **modular** and **maintainable code** that significantly reduced development time.
- Enhanced frontend responsiveness and backend **scalability** using **Next.js**, **TypeScript**, **JavaScript**, **Tailwind CSS**, and **Express.js**, leading to a **40%** improvement in application performance.
- Optimized data usage and application performance through efficient **data structures**, **object-oriented programming**, **DOM manipulations**, and **RESTful APIs** built with **Flask**, resulting in a more efficient system.

### Visakhapatnam Port Trust

May 2022 – June 2022

*Frontend Intern*

India

- Developed a responsive **inventory management system** with **PostgreSQL**, significantly enhancing data storage and retrieval efficiency and improving overall system performance.
- Led frontend development of a dynamic web page using **JavaScript**, **HTML**, **CSS**, and **Node.js**, integrating **RESTful APIs** to boost team productivity.
- Reduced backend query processing time by **45%** by optimizing **SQL** and **Python** workflows, leading to faster data access.

## Projects

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### Realtime Chat Engine

WebSockets, Redis, Node.js, Express.js, React.js

*Scalable Real-Time Communication Platform*

- Developed a **scalable chat application** using **WebSockets** and **Redis Pub/Sub**, enabling real-time messaging across multiple servers.
- Implemented **horizontal scalability** by deploying multiple **WebSocket servers**, ensuring seamless communication even under high traffic loads.
- Utilized **React.js** for the frontend to provide a responsive and interactive user interface, enhancing the overall user experience.

### Traffic Crash Analysis

Hadoop, Apache Spark, PostgreSQL, GCP, BigQuery, OpenRefine

*Traffic Crash and Vehicle Insights Project*

- Analyzed **real-time** and **historical** traffic crash data to identify patterns and high-risk zones, leveraging **Hadoop** and **Apache Spark** for processing and **PostgreSQL** for storage.
- Utilized **GCP**, **BigQuery**, and **OpenRefine** for data preprocessing, querying, and visualization, delivering **actionable insights**.