

NAIJOE SRINIVASAN

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PROFESSIONAL EXPERIENCE

Optum Global Solutions Pvt. Ltd. - Software Engineer

Aug. 2020 – May. 2022

Data Engineering Team

Noida, India

- Engineered **ETL pipelines** for insurance data from 30+ states using **PL/SQL** and **Oracle**, reducing data processing time by 35%, ensuring high availability and low latency.
- Developed a **front-end** architecture with **Angular**, **Spark**, and **Hadoop**, improving database access time by 45% and user experience by 90%.
- Automated XML data ingestion processes using **UNIX batch processes**, streamlining data operations and reducing execution time of DML queries by 35%.
- Collaborated with cross-functional teams to ensure reliability and security of **data management solutions**, conducting **unit tests** and code reviews to maintain high code quality.

National University of Singapore - Big Data Analytics Intern

Jun. 2018 – Aug. 2018

Corporate Gurukul

Singapore

- Spearheaded a project focused on currency authentication using a multi-layered **Perceptron** model, achieving an impressive accuracy rate of 87%
- Collected and curated data from 50+ countries, enhancing dataset quality with **advanced preprocessing** techniques
- Utilized Hadoop's **MapReduce** framework to preprocess and analyze large datasets of currency images, enabling efficient feature extraction and model training.

EDUCATION

Arizona State University

Aug. 2022 – May. 2024

Master of Science in Computer Science

Tempe, AZ

Relevant Coursework: Data Processing at Scale, Foundations of Algorithms, Statistical Machine Learning, Data Visualisation, Mobile Computing, Data Mining, Human Computer Interaction

Shiv Nadar University

Jul. 2016 – Jun. 2020

Bachelor of Technology in Computer Science and Engineering

Greater Noida, India

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Introduction to Database Systems, Machine Learning through R, Deep Learning, Graph Theory

PROJECTS

Guardian Angel - AI Assistant

Sept. 2023 - Dec. 2023

Android Application

ASU, USA

- Built an AI-powered **Android application** using **OpenAI (ChatGPT) API** for **NLP** tasks such as event scheduling, text summarization, and music recommendations.
- Developed backend services with a **Flask server** and **Firebase** for data processing and storage, ensuring efficient communication with external APIs.
- Implemented features using **Java**, **Android Studio**, and **Android SDK**, deploying the application on mobile devices, with robust error handling and **performance optimizations**.

Spotify Music Web Application

July. 2024 - Aug. 2024

Fullstack Personal Project

USA

- Developed a **full-stack web application** using the **MERN** stack (MongoDB, Express.js, React, Node.js) to showcase and interact with personal Spotify data.
- Integrated Spotify API with **OAuth 2.0** for user authentication and data retrieval, storing data in **MongoDB Atlas**.
- Created dynamic, **responsive user interfaces** allowing users to explore music data, listen to snippets, and gain insights into their music preferences.

Multimedia and Web Databases

Sept. 2023 - Dec. 2023

Extensive Project on Machine Learning and Database Techniques

ASU, USA

- Designed and implemented **custom search algorithms** including DBScan, K-Means clustering, and KNN for high-efficiency image retrieval.
- Utilized **MongoDB** to manage large-scale image data, ensuring **optimized search** and retrieval times.
- Leveraged the **ASU Sol Supercomputer** for handling large datasets, enabling complex mathematical operations like cosine similarity scores on extensive image databases.
- Deployed the solution using **Streamlit**, integrating with **Python-based backend** for seamless user interaction and **real-time data processing**.

TECHNICAL SKILLS

Languages: C++, JavaScript (ES6), Python, Java, SQL, C++, Bash, HTML, CSS, Scala, R, Matplotlib

Technologies/Frameworks: React, Express, Docker, Flask, REST Services, AWS (S3, EC2, ASG, AuroraDB), MongoDB, MySQL, Git, Android Studio, TensorFlow, PyTorch, Scikit-learn, OpenCV, NLTK, Hadoop, Linux, Scala

Core Competencies: Fullstack Development, Distributed Systems, Database Management, Data Analysis, Statistical Analysis, Software Development, Data Visualization, Deep Learning, Agile Methodology