Navya Sravani Jammalamadaka

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Education

New York University, New York, NY, USA
Sep 2021 – May 2023
Master of Science, Computer Engineering   GPA: 3.83/4
Coursework: Big Data, Machine Learning, Deep Learning, Database systems, Data Visualization, Computer systems

K L University, Guntur, AP, INDIA   **July 2016 – May 2020**
Bachelor of Technology, Electronics and Communications   GPA: 9.48/10
Coursework: Algorithms, Object Oriented Programming, C Programming, Data Structures, Artificial Intelligence, Computer Networks

Technical Skills

Languages/Database: Python, Java, C, C#, C++, R, Go, Data Structures, Algorithms, Scala, Rust
Data & ML Frameworks: Hadoop, Spark, Hive, Airflow, PyTorch, Pandas, NumPy, SciPy, TensorFlow, Power BI, Tableau, Looker
Web Technologies: React, Nodejs, HTML, CSS, PostgreSQL, MySQL, NoSQL, MongoDB, Oracle DB, DynamoDB
Cloud and Containerization Platforms: AWS, GCP, Microsoft Azure, Docker, Kubernetes, Google BigQuery

Work Experience

Technical Consulting & Research Inc. | Web Applications Engineer Intern | Weston, CT, USA   **July 2023 - Present**
- **Front-end Development:** Led the development of engaging front-end website designs, leading to an impressive **10% increase in user engagement** with TCR's services, offerings, and website traffic.
- **Bug Resolution:** Played a pivotal role in the software development process by overseeing code reviews and testing protocols for backend functionalities and achieved an **average bug resolution time of under 24 hours.**
- **Identity Access Management:** Directed the development of cutting-edge React applications while implementing robust integration with auth0 authentication, protecting site security, and introducing accurate access controls.

New York University | Research Data Scientist, Teaching Assistant | New York, NY, USA   **Sept 2021 - May 2023**
- **Data Scientist:** Automated Inventory Management System for NYU Library using data science techniques and decision trees, **achieving a 95% accuracy in inventory prediction,** and boosting students' book engagement rate by 10%.
- **Database Systems TA:** Provided real-time assistance to students by resolving complex SQL queries, **achieving a 90% success rate in completing assignments.** Collaborated with Professor. Amit Patel to design relational and non-relational database solutions.

General Trading Company | Data Engineer | Guntur, AP, INDIA   **Aug 2020 - Aug 2021**
- **Data Pipelines:** Enhanced data processing **efficiency by 20%**, streamlined ETL pipelines and parallel processing.
- **Data Modelling:** Achieved a **30% reduction in data retrieval time** for crucial financial reports through the implementation of finely tuned data models and targeted indexing strategies.
- **Data Security:** Ensured a flawless **100% compliance score during annual audits** by meticulously showcasing the company's strict adherence to stringent data security and privacy standards.

Scarlett Moose Entertainment | Software Engineer- Programming Intern | | Guntur, AP, INDIA   **Mar 2019 - July 2020**
- **Data Structures:** Contributed to the development of a new game feature by collaborating with team members to create and implement a complex coding algorithm, resulting in a **50% decrease in load times.** Implemented rigorous testing and debugging of game features and resolved over 50+ software issues before product release.

Academic Projects

Electric Vehicle Charging Management System | HTML, CSS, JavaScript, Node.js, PostgreSQL   **June - July 2023**
- Developed a user-friendly app enabling EV owners to locate, reserve, and manage charging sessions. **Achieved 20% faster reservation processing and 15% reduction in user wait times.**
- Created a comprehensive admin panel for station management, resolving disputes. **Enhanced user satisfaction by 25%** through efficient issue resolution and data-driven decisions.

YouTube Data Insights and Analytics Framework | AWS, Power BI   **Feb - May 2023**
- Utilized **AWS** to build a Data Pipeline using **S3, Glue, Redshift, and Athena over 200K+ data points** to construct an end-to-end video analytics framework. Ensured uninterrupted operations and delivered actionable insights.
- Constructed impactful executive dashboards utilizing Power BI, enabling real-time insights on key performance metrics like views, likes, and demographics which facilitated a **40% enhancement in informed decision-making.**

Health Insurance Analysis | Big Data, Spark   **Feb - May 2023**
- Used **PySpark, SparkML, and SparkSQL** for predictive analysis on health insurance dataset (10M records), revealing actionable trends. Enhanced plan rates and benefits for diverse demographics through insightful data-driven decisions.
- Built a linear regression recommendation system by intricate analysis of age and tobacco consumption metrics, optimizing personalized recommendations, and fostering precise decision-making with an **accuracy of 94%.**

Online Car Rental Web Application | HTML, CSS, MYSQL   **Feb - May 2022**
- Developed and deployed a real-time car rental system utilizing PHP, HTML, and CSS with a MySQL server. **Reduced turnaround time by 12% through 3NF Normalized queries** and Query Optimization. Implemented password encryption, and cross-site scripting prevention.