NITHISH KUMAR

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EDUCATION

Master of Science in Computer Science, **Jan 2023 - May 2024**
University of North Texas - Denton,Texas. **GPA: 3.63**
Bachelor of Technology - Computer Science and Engineering, **Jun 2016 - Dec 2020**
Jawaharlal Nehru Technological University - Hyderabad, India

TECHNICAL SKILLS

Languages and Libraries: Python, SQL, R, Java, HTML, CSS, Pandas, MatplotLib, Scikit-Learn, TensorFlow, JavaScript, JSON, YAML.
Certifications: Google Analytics, AWS Certified Developer Associate, Hashicorp Terraform Associate, Databricks Academy.
Analytics/Statistical Tools: Tableau, PowerBI, SPSS.
Tools and Frameworks: CI/CD Pipelines, Jenkins, Docker, React, Angular, JIRA, Redux, SpringBoot.
Web Development: Responsive Web Development, Advanced JavaScript, SOAP, REST API, POSTMAN.
Operating Systems: Linux, Windows.
Methodologies/Frameworks: Agile/scrum, Waterfall, Iterative.
Databases: SQL, NoSQL (MongoDB, Elasticsearch), Oracle, MS SQL server, PostgreSQL
Virtualization/Containers: Docker, Kubernetes, Terraform, OpenShift, Microservices, Istio.
Version Control: GIT.
IDE: Visual Studio, ATOM.
Office Tools: MS Office (Excel, PowerPoint, Word,MS Project Professional).

EXPERIENCE

Teaching Assistant, University of North Texas, Denton, TX **Jan 2024 - May 2024**

- Assisted in the instruction of CSCE-5320 Scientific Data Visualization, helping over 80 students improve their understanding of key concepts such as Data Visualization which covers Tableau, PowerBI, D3.js, Python, JavaScript.
- Assisting Professor with Course Lectures, Grading and clarifying Students Doubts related to the course.

Software Engineer, Cedent Consulting Inc, Plano, TX **Jan 2023 - Dec 2023**

- Designed and implement scalable software solutions on AWS and Azure, enhancing operational efficiency.
- Developed and maintained CI/CD pipelines using Jenkins and Docker, ensuring seamless integration and deployment of applications, while collaborating closely with cross-functional teams to solve complex problems.

Software Engineer, Aditi Software, Hyderabad, India **Jun 2021 - April 2022**

- Developed predictive models to analyze customer data and provide actionable insights for marketing strategies, resulting in a 20% increase in customer retention. Utilized a combination of Excel, SQL, ETL workflows, and PowerBI to analyze and visualize data, empowering stakeholders with insights into project progress and performance.

Intern, Advanced Systems Laboratory, DRDO, Hyderabad, India **May 2018 - July 2018**

- Ensured accuracy on statistical results and implemented linear regression-based algorithms on records using Python Scripting language.

PROJECTS

Big Data Analytics Platform with Databricks and Apache Spark **May 2024 - June 2024**

- Developed a big data analytics platform using Databricks and Apache Spark for large-scale data processing and advanced analytics.
- Technologies: Databricks, Apache Spark, Delta Lake, Azure Data Lake Storage, Python.
- Enabled efficient processing of large datasets with Apache Spark on Databricks. Improved data management and query performance using Delta Lake. Enhanced analytics capabilities, allowing for advanced data exploration and machine learning model training.

Advanced Data Analytics Platform with Databricks **March 2024 - April 2024**

- Developed an advanced data analytics platform using Databricks for large-scale data processing and machine learning.
- Technologies: Databricks, Delta Lake, PySpark, MLflow, AWS, Kafka, Python.

- Achieved efficient and scalable data processing with Databricks and Delta Lake. Improved data quality and reliability through automated ETL processes and data validation. Enabled seamless model training, tracking, and deployment using Databricks and MLflow.

Multi-Region Deployment with AWS CloudFormation **Feb 2024 - March 2024**

- Automated the deployment of a multi-region application using AWS CloudFormation to ensure high availability and disaster recovery.
- Technologies: AWS CloudFormation, EC2, S3, RDS, CloudFront.
- Key Achievements: Ensured application high availability and fault tolerance by deploying across multiple AWS regions.
- Completed the engineering and optimization of a random forest model, achieving an 85% accuracy rate in prediction.

Real-Time Data Pipeline with AWS Kinesis and Redshift **Dec 2023 - Jan 2024**

- Developed a real-time data pipeline to collect, process, and analyze streaming data using AWS Kinesis, Lambda, and Redshift.
- Technologies:- AWS Kinesis, AWS Lambda, Amazon Redshift, S3, Python.
- Achieved real-time data ingestion and processing with minimal latency. Used Redshift for efficient querying and analysis of large datasets.

Serverless Microservices Architecture **Oct 2023 - Dec 2023**

- Designed and implemented a serverless microservices architecture using AWS Lambda and API Gateway.
- Technologies:- AWS Lambda, AWS API Gateway, DynamoDB, S3, CloudFormation, Python.
- Key Achievements: Reduced operational overhead by leveraging serverless technologies, enabling automatic scaling and high availability.