Nidhay Pancholi

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SKILLS

Programming: Python, JavaScript, Java, C, R, Ruby, Typescript, Flask, Django, Express.js, Node.js, React.js, Nest.js, HTML, CSS
Data: SQL, MySQL, MongoDB, PostgreSQL, Redis, NoSQL, Amazon DynamDb, SQLAlchemy, Databricks, Apache Airflow, Apache Spark, Amazon Redshift, AWS S3, AWS Lambda, Elastic Search, Grafana, Databricks, Azure DataFactory, Kafka, Hadoop
Software Development: Software Development, Testing, Git, Agile, Scrum, REST API, Microservices, Data Structures, Docker
Data Science: Machine Learning, Tableau, SAS JMP, Power BI, Tensorflow, Pandas, Deep Learning
Cloud Platforms: Google Cloud Platform (GCP), Microsoft Azure, Amazon Web Services (AWS), Google Firebase
Other Technologies: Blockchain, Computer Vision, Linux/Unix, Selenium, Product Management

EDUCATION

Master of Computer Science | North Carolina State University Aug 23 - Dec 24
GPA: 4.0/4.0 | **Coursework** - Software Engineering, Data Structures and Algorithms, Data Mining, User Experience, Object Oriented Programming, Neural Networks and Deep Learning, Database Management Systems, Statistics

BTech. in Computer Science | Pandit Deendayal Energy University May 19 - May 23
GPA - 3.9/4.0 | **Full Ride Scholarship |** President of Programming club **| Top 0.1% Percentile out of 450k+ participants** in Product Management Competition | **Top 1% Percentile out of 185k+ participants** in TCS CodeVita(Coding Competition)

WORK EXPERIENCE

Software Developer | Laboratory of Analytical Sciences Aug 24 - Present
- Developed a Java and Postgres monitor which monitors usage of OpenAI API and AWS EC2 usage by developers and applies usage limits to **cut costs by 20%**.
- Utilized Python, AWS Cloudtrail, AWS Lambda, AWS Glacier storage and AWS Infrequent access to **reduce AWS S3 costs by 15%**.
- Developed a model scanning service using Python which scans machine learning models for vulnerabilities and security threats..

Software Engineer Intern | Zoox (Amazon) May 24 - Aug 24
- Implemented a Data Pipeline using Python, Docker and Databricks to **ingest and analyze 300 Million logs Daily**, while collaborating with multiple firmware teams to integrate the data pipelines into existing analytics systems and dashboards which **reduced the turnaround time for bug fixes by 50%**.
- Designed a slack bot using Databricks SQL and Python which analyzes the logs collected to send notifications of discovered errors.
- Developed CI/CD pipelines using Docker, shell scripts and JFrog artifactory to automate build and provision processes **increasing developer productivity by 25%.**

Software Developer(Research Assistant) | North Carolina State University Dec 23 - June 24
- Developed a comprehensive test suite for Nest.js Backend using Jest Framework and **Improved code coverage by 60%**.
- Spearheaded development of **100+ REST API endpoints** for probabilistic risk assessment methods using Nest.js and MongoDb.
- Leveraged Elastic UI Datagrid to design and implement highly scalable table interfaces for managing **millions of rows**.

Teaching Assistant | North Carolina State University Aug 23 - Dec 23
- Instructed the course "Analytics: Data to Decisions" to a cohort of **35 students**, conveying the practical applications of Data Science and Machine Learning in business, helping **98% students attain an A grade**.
- Led students in the deployment of **6 machine learning models** to transfer theoretical knowledge to practical applications.

Software Developer Intern | Myalgosoft Jan 23 - Apr 23
- Designed and developed an automated data pipeline using Azure Data Factory and Azure Functions.This initiative led to the establishment of a centralized data store and annual savings of **500 human hours**.
- Engineered an ERP dashboard and backend APIs using Python, seamlessly integrating data stores with a robust data pipeline for enhanced efficiency and unified data management.

Software Developer Intern | Provoke Developers May 22 - Jul 22
- Created a data collection system using Python which tracks key metrics such as clicks and page views to measure user engagement on the platform, which lead to creating a data warehouse for analytical purposes.
- Utilized Web push notifications to **increase user engagement by 10% and reduce notification system cost by 50%**.

PUBLICATIONS

- Document authentication model through blockchain and Non fungible tokens | Blockchain, NFT, Distributed File System, Cryptography
- Securing Cookies/Sessions through non-fungible tokens | Software Security, Non Fungible Tokens, Blockchain, Cookies, Sessions
- Computer Vision based automated underground parking system | Computer Vision, Python, Data Science, Preprocessing
- Correlation of Carbon Monoxide and Sulphur dioxide with other major pollutants | Data Science, Machine Learning, Python
- Insight into the Electric Vehicle Niche | Python, IOT, Routing Algorithms