

# Nikhil Narra

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## Experience

### Virginia Tech

Dec 2023 – Present

CS Graduate Assistant – Part-time

Blacksburg, VA

- Leading the full lifecycle development, from conceptualization to deployment, of a comprehensive online survey analysis tool. Taking full responsibility for both front-end and back-end design and development
- Architected the back-end using Python for advanced data processing and analysis achieving 100% data accuracy.
- Developing a dynamic front-end dashboard utilizing modern web technologies – React.js & D3.js to present analysis results in an interactive, user-friendly manner.
- Designing and implementing an automation system to streamline the entire data handling process, from initial collection to final report generation.

### Deloitte

July 2021 – Dec 2022

Analyst – Full-time

Hyderabad, India

- Contributed significantly to the Digital & Analytics Team by developing diverse Salesforce functionalities for the Employee Lifecycle Events module to enhance system capabilities using Apex and Visualforce.
- Diagnosed, debugged, and resolved technical issues, resulting in a 40% decrease in system-related support tickets.
- Collaborated with the RPA Team to automate repetitive tasks using UiPath, which eliminated manual work by 100%.
- Re-engineered and optimized Salesforce workflows, leading to a significant 75% increase in operational efficiency.
- Demonstrated strong process ownership in guiding a successful ServiceNow migration project and reducing the project timeline by 15% through adept communication and cross-team collaboration.

## Education

### Virginia Tech

Expected December 2024

Master's in Computer Science (GPA: 3.95 / 4.00)

Blacksburg, VA

- **Relevant Coursework:** Software Design & Quality, Information Visualization, Data Analytics, HCI with LLMs

### Jawaharlal Nehru Technological University, Hyderabad

July 2021

Bachelor of Technology in Computer Science & Engineering

Hyderabad, India

- **Relevant Coursework:** Data Structures & Algorithms, AI & ML, DBMS, Software Engineering, Operating Systems

## Projects

**Know My Recipe** | JavaScript, Express.js, React.js, MongoDB, Node.js, GitLab, OpenAI, Heroku

- Building an advanced social media platform to revolutionize the way food enthusiasts share, and discover recipes. With a focus on AI-driven features, the product combines social media functionalities with cutting-edge technology

**Too Long; Didn't Watch** | Python, LangChain, OpenAI, Flask, MongoDB

- Spearheaded the development of a video summarization and question-answering web application, enabling personalized video summaries, content navigation, and conversational interaction with the LLM-powered backend.

**Youtube Trends Analysis w/ AWS** | AWS Lambda/Glue/IAM, Amazon S3/RDS/QuickSight, Python

- Designed and implemented a comprehensive end-to-end data engineering pipeline to ingest, process, and analyze video trends. Further automated ETL workflows, and deployed an interactive dashboard for insights visualization.

## Technical Skills

**Languages & Frameworks:** Python, Java, C, C++, JavaScript, HTML, CSS, React, Node.js, Angular, TypeScript

**Technologies & Tools:** MySQL, MongoDB, AWS, Git, Tableau, DevOps, CI/CD, APIs (RESTful), Salesforce, Docker

## Interests

Human-Computer Interaction (HCI), Emerging Technologies and Digital Innovation, Interdisciplinary Applications of Technology, Process Optimization and Re-engineering

## Awards

### Spot Award

Deloitte

Recognized for rapid learning, independent leadership, and technical expertise in managing critical tasks.