

Nikhil Narra

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Education

Virginia Tech

Master's in Computer Science (GPA: 3.96 / 4.00)

Expected December 2024

Blacksburg, VA

- **Key Coursework:** Software Design & Quality, Social Computing, Info Visualization, Data Analytics, HCI with LLMs

Jawaharlal Nehru Technological University, Hyderabad

Bachelor of Technology in Computer Science & Engineering

July 2017 - July 2021

Hyderabad, India

- **Key Coursework:** Data Structures & Algorithms, AI & ML, DBMS, Software Engineering, Object Oriented Design

Skills

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

Technologies & Tools: AWS, Azure, Docker, Git, DevOps, Jest, CI/CD, RESTful APIs, MySQL, MongoDB, Figma

Experience

Virginia Tech - Advanced Research Computing

Software Engineer - Visualization – Part-time

March 2024 – Present

Blacksburg, VA

- Increased user engagement by 25% by developing high-performance, web-based visualizations using X3D and WebXR for 360° immersive AR/VR experiences.
- Designed and implemented Single Page Applications (SPAs) using React.js, resulting in a 60% improvement in interactive data visualization responsiveness.

Virginia Tech - Center for Rural Education

Full Stack Developer – Part-time

Dec 2023 – Present

Blacksburg, VA

- Leading the Rural STARS initiative, a scalable online tool to assess giftedness in students across rural schools in Virginia, streamlining a previously manual 4-5 hour process by 95%, reducing it to just a few clicks.
- Architected and implemented a robust algorithm in Python, achieving 100% accuracy in calculating giftedness.

Deloitte

Analyst – Full-time

July 2021 – Dec 2022

Hyderabad, India

- Developed scalable Salesforce solutions, collaborating across teams to streamline workflows and boost operational efficiency by 75%.
- Reduced system-related support tickets by 40% through effective diagnosis, debugging, and issue resolution.
- Led the automation of repetitive tasks with UiPath, eliminating 100% of manual work and increasing productivity.
- Successfully managed a ServiceNow migration, collaborating with cross-functional teams using Agile methodologies to reduce the project timeline by 15% through strategic planning, effective communication, and execution.

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

- Led development of an LLM-powered video summarization and question-answering app, reducing average video consumption time by 40% and enabling personalized summaries, content navigation, and conversational interaction.

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.

Interests

Emerging Technologies and Digital Innovation, Open Source Development, Interdisciplinary Applications of Technology

Awards

Spot Award

Deloitte

Recognized for leadership and technical expertise in driving critical projects and rapid adaptation to new technologies.