

Nikhil Tirunagiri

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Education

George Mason University - College of Engineering and Computing

Bachelor of Science in Computer Science

Aug 2022 – Dec 2026

Relevant Coursework: Data Structures & Algorithms, Database Systems, ML, SWE, Operating Systems

Experience

Data Analytics Intern

Era Technology, Virginia

Jan 2025 – May 2025

- Collaborated with the development team to implement best coding practices in full-stack development for an AI-driven analytics platform that automates data ingestion, cleaning, and analysis of structured and unstructured datasets using advanced machine learning pipelines and LangChain workflows.
- Developed and deployed machine learning models for healthcare and retail analytics.
- Designed and built interactive dashboards using React, Next.js, and TypeScript, enabling stakeholders to visualize complex datasets in Tableau and Power BI and derive actionable business insights from diverse data sources.
- Implemented RESTful API integrations and new features in React-based analytics applications, containerized with Docker and deployed on AWS (EC2, S3), improving user engagement through enhanced UX/UI performance and reliability.
- Contributed to AI-driven analytics platform that automates data ingestion, cleaning, and analysis of structured/unstructured datasets using advanced machine learning pipelines and LangChain-powered processing workflows.
- Built React.js dashboard enabling business users to upload data, configure analysis models, and visualize insights through interactive charts and automated report generation, reducing manual analysis time.
- Engineered Django backend with RESTful APIs to manage ML workflows, trigger asynchronous data pipelines, and handle real-time analytics processing with robust error handling and monitoring.

Projects

Personal AI Smart Glasses

Petal, MIX George Mason University

Sep 2025 – Present

- Backed by George Mason University's Mason Innovation & Exchange - MIX.
- Building AI smart glasses that can perform actions, run background agents, help user with scheduling tasks, events, reminders, etc.
- Designed comprehensive memory orchestrator that intelligently categorizes digital content, extracts factual information, learns behavioral patterns, while maintaining user privacy.
- Building cross-platform ecosystem including a Web dashboard, iOS and MacOS applications.

Educational Platform Solutions

TheCollegeTech, India

Dec 2024 – Present

- Co-founded and worked as the lead developer for building scalable educational technology such as learning management and recruitment platforms for multiple universities with modern management system solutions.
- Architected responsive, scalable applications using React, Django tech stack with secure authentication, backend APIs, real-time updates, and optimized database design supporting 1000+ concurrent users.
- Built Learning Management Systems, featuring comprehensive course management, assignment submission, grading, and real-time student-instructor communication
- Designed & developed campus recruitment platform, implementing automated student job matching that improved placement efficiency.

Technical Skills

Programming Languages: Python, Java, C, C++, Rust, Go, TypeScript, JavaScript, Swift, PHP, R, Bash

Machine Learning & Analytics: TensorFlow, Scikit-Learn, Pandas, NumPy, LangChain, LangGraph

Frameworks: Full-Stack Development: Django, React, FastAPI, RESTful APIs

Databases: PostgreSQL, Redis, Supabase

Cloud & DevOps: AWS (EC2, S3), Docker, Git, Linux (Ubuntu, RHEL)