

Viraj Kishore Charakanam

Cincinnati,
OH

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SUMMARY

Results-driven software developer with 3+ years of experience in designing, developing, and deploying secure, scalable applications using C#, .NET Core, ASP.NET, JavaScript, Python, React, and SQL Server. Proficient in building AI-driven Web Apps, RESTful APIs, and real-time monitoring services. Adept at collaborating in agile teams, implementing DevOps practices, and optimizing system performance for enterprise clients.

WORK EXPERIENCE

Global Quality Corp – Covington, KY

Software Engineer - Full Stack

Aug 2025 - current

- Built a production forecasting service using FastAPI and scikit-learn to model water-network behavior, processing thousands of historical time-series records to generate six-month infrastructure projections used in planning scenarios.
- Engineered end-to-end utility management platforms using .NET Core and PostgreSQL, supporting drinking water, wastewater, and flood-management datasets across multiple municipal systems.
- Engineered full-stack integrations between React clients and .NET APIs, implementing secure REST endpoints and data models that enhanced reliability and reduced integration errors by 40%
- Designed and implemented REST APIs with Django REST Framework to manage large structured and unstructured datasets in Azure Blob Storage, enabling reliable CRUD operations for simulation and analytics workflows.
- Developed a comprehensive GIS-based tool for infrastructure management and visualization, using ESRI ArcGIS JavaScript SDK (2D/3D) and React Flow, enabling real-time monitoring and analytics of water distribution networks.
- Improved frontend performance and stability by restructuring React state into domain-driven contexts, resolving rendering bottlenecks in map-heavy views and delivering consistent behavior across desktop and mobile devices.
- Automated build and deployment pipelines using GitHub Actions and Azure, standardizing releases across environments and eliminating recurring manual deployment steps for production services.
- Collaborated in agile sprints with developers, QA, and product teams, applying solid design principles, Git-based workflows, and peer reviews to deliver scalable, maintainable, and high-quality releases

Marven Data Systems – Hyderabad, India

Software Developer

Jun 2023 – Jul 2024

- Engineered full-stack applications using .NET Core, C#, and SQL Server, improving backend scalability and reducing API response latency through optimized schema design
- Built real-time asset tracking and monitoring systems with Python background services on Windows and Linux, a feature that brought 3 new enterprise clients through improved live telemetry and reliability
- Deployed and maintained production environments in Azure, automating CI/CD pipelines with Azure DevOps and Docker, and tuning database operations to reduce deployment cycles by 35%
- Implemented Single Sign-On (SSO) via Identity Server, strengthening authentication and centralizing user access across distributed systems
- Led testing and code reviews, mentoring junior developers and maintaining clean, production-grade code practices across releases

Software Development Intern

May 2021 – Jun 2023

- Designed responsive web interfaces using Bootstrap, HTML5, and JavaScript, improving usability and reducing navigation time by 40%
- Developed RESTful APIs in .NET Core for secure communication between front-end and backend services
- Automated reporting workflows with Python scripts, cutting manual data-prep effort by 45%
- Assisted in database design and testing, gaining foundational experience in SQL Server optimization and QA workflows

PROJECT HIGHLIGHTS

Movie Explorer – React Frontend App

Apr 2025

Built a mobile-first, JavaScript/React-based movie discovery app consuming REST APIs from TMDb, with trending sections, search filters, and scrollable grids.

Real-Time Face Mask Detection (Deep Learning)

Nov 2021 – Feb 2022

Developed a TensorFlow-based ML model in Python achieving 90%+ accuracy for real-time mask detection, integrating image processing and advanced cost functions.

EDUCATION

Master of Engineering in Computer Science

Aug 2024 - Dec 2025

University of Cincinnati, OH — GPA: 3.87

Bachelor of Technology in Electronics & Communication Engineering

Jun 2018 - Aug 2022

SASTRA Deemed University, India

PUBLICATIONS

Supply Chain Management In Manufacturing Industry Using Internet Of Things

Mar 2022 – Aug 2022

Sastra Deemed University

- Developed a Supply Chain Management software using Python and SQL, integrating GPS tracking with Ublox neo 6m and NodeMCU ESP8266 for end-to-end goods tracking, published in IEEE during the 2023 International Conference on Computer Communication and Informatics

CORE TECHNICAL SKILLS

- **Programming:** JavaScript (ES6+), Python, C#, .NET Core, ASP.NET MVC, REST APIs
- **Frontend:** React, HTML5, CSS3, Bootstrap, Tailwind, jQuery
- **Backend & Databases:** SQL Server, Entity Framework, T-SQL, Stored Procedures, Views, Triggers
- **AI/ML & Analytics:** TensorFlow, Deep Learning Models, Predictive Dashboards
- **Cloud & DevOps:** Azure, CI/CD Pipelines, IIS Deployment, SSL Configuration
- **Tools & Version Control:** Git, GitHub, Bitbucket, Jira, Agile/Scrum