

# Viraj Mavani

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## SYNOPSIS

Full Stack Developer with a Master's in CS (AI Specialization) and a proven track record of architecting scalable web applications using C#, .NET Core, and Python. Expert in bridging front-end performance with robust back-end architecture and AWS/Azure cloud integration. Specialized in automating complex data acquisition through advanced web scraping and reverse engineering.

## EDUCATION

WESTERN UNIVERSITY, ON, CA | M.SC. IN COMPUTER SCIENCE (AI SPECIALIZATION) | GPA: 3.58/4.0      SEPT 2024 – SEPT 2025  
ATMIYA UNIVERSITY, IN | B.TECH. IN COMPUTER ENGINEERING | GPA: 3.62/4.0      JULY 2019 – APR 2023

## SKILLS AND KNOWLEDGE

**Languages:** C#, Python, Java, Node.js, JavaScript(ES6+), SQL, HTML/CSS

**Frameworks/Web:** .NET Core, Spring Boot, AngularJS, Node.js, REST API, JWT

**Cloud & DevOps:** AWS (Lambda), Azure (ServiceBus, DevOps), Docker, CI/CD, Git, Jira

**Databases:** PostgreSQL, MySQL, MongoDB, SQL Server (Dapper, Entity Framework)

**Data & Automation:** Selenium, Scrapy, Beautiful Soup, Web Scraping, Data Analysis, AI/ML

## WORK EXPERIENCE

### DEXOC SOLUTIONS, Gujarat, India | Full Stack Developer

Sept 2023 - Jul 2024

- Architected end-to-end full-stack solutions using .NET Core, Python, and AngularJS, focusing on scalability and performance optimization for dynamic web applications.
- Led large-scale web scraping and automation projects for international clients, ensuring high-fidelity data acquisition and delivery.
- Engineered AWS Lambda functions to automate data processing and storage, optimizing cloud infrastructure efficiency.
- Collaborated in an Agile/Scrum environment, managing sprint deliverables and contributing to backend architectural discussions to improve system reliability.

### FSP MEDIA, Gujarat, India | Software Developer

Mar 2023 - Aug 2023

- Designed and developed .NET-based backend applications for diverse industries, ensuring modular architecture and timely project delivery.
- Partnered with stakeholders to translate complex business requirements into technical specifications and functional software solutions.
- Enhanced system reliability & code quality by implementing comprehensive unit testing and rigorous debugging protocols.

### TATVASOFT, Gujarat, India | .NET Developer Intern

Dec 2022 - Feb 2023

- Contributed to production-level .NET projects, transitioning classroom concepts into enterprise-grade software solutions.
- Optimized application performance through hands-on development, code reviews, proactive debugging within the .NET ecosystem, and utilized version control (Git) and collaborative tools to manage codebases.

## PROJECTS

### Aerospace Part Tracking System | .NET Core, AngularJS, PostgreSQL, Azure DevOps & ServiceBus, Blockchain

- Developed secure system features focusing on scalability and performance, implementing JWT-based authentication for stakeholder security.
- Engineered real-time data synchronization APIs and middleware using Azure ServiceBus to connect disparate stakeholders.
- Collaborated on backend architectural design, ensuring high availability and seamless integration of blockchain components for data immutability.

### Web Scraping Automation | Python, Selenium, Web Automation, BeautifulSoup, Scrapy

- Developed custom automation scripts to extract data from complex, dynamic websites using Selenium and HTML parsing.
- Implemented advanced anti-detection measures, including anti-captcha API integrations and proxy rotation to ensure uninterrupted data extraction.
- Ensured 99% data integrity by designing robust error-handling and validation protocols for large-scale datasets.

### E-commerce Platform | .NET 8, React, PostgreSQL, Redis, Stripe, Docker

- Developed a high-concurrency platform using .NET 8 and React, integrating JWT security and Stripe API to facilitate scalable, secure, and efficient end-to-end payment and transaction processing.
- Optimized performance by 60% using Redis caching and containerized the entire system with Docker.