Jatin Sisodia

Worcester, MA | jsisodia@wpi.edu | +1 7747014370 | linkedin.com/in/jatin-sisodia | github.com/sisodiajatin

Summary

Software Engineer | MS CS (WPI). I design API-first, data-centric systems building **REST services** in **C#/ASP.NET, Java, Python, JavaScript (Node.js, Express.js)** with front-end integration in **React**. Data layer: **SQL Server, MySQL, MongoDB, SQLite**; search/IR with **Flask, Elasticsearch**. Comfortable with **Docker, Kubernetes, Azure Functions, AWS EC2**. Focus on **database design, performance optimization, input validation, structured logging, and unit/integration/E2E testing**.

Education

Worcester Polytechnic Institute, MS in Computer Science | GPA: 3.42/4.0 — Aug 2024 – May 2026

Medicaps University, B.Tech in Computer Science | GPA: 3.2/4.0 — Aug 2019 - May 2023

Skills

Languages: C#, Java, Python, JavaScript, SQL, C/C++
Frontend:React.js, Angular, Vue.js, D3.js, Chart.js, Framer-motion
Backend: ASP.NET, Node.js, Express.js, Flask, Spring Boot
Database: SQL Server, MySQL, MongoDB, SQLite, Elasticsearch
Cloud and DevOps: Docker, Kubernetes, Azure Functions, AWS EC2
Tools & Other: Git, VSCode, Visual Studio, IntelliJ

Professional Experience

Web Developer, WebCraft-IT – India — Aug 2023 – June 2024

- Constructed 10+ modules for a Commodity Trading Platform, handling 5,000+ daily transactions.
- Improved SQL Server databases, increasing performance by 30% and reducing query time.
- Produced 15+ APIs with C#, PHP, and ASP.NET to automate data integration.
- Delivered 12+ product releases with cross-functional teams, increasing user satisfaction by 20%.

Web Developer, Travel Junction Indo – India — April 2023 – April 2023

- Created and launched a WordPress website for a travel agency, increasing online booking inquiries by 30%.
- Customized themes and integrated payment gateways, reducing manual booking processes by 40%. .
- Strengthened website responsiveness and SEO optimization, increasing web traffic by 25%.
- Collaborated with the client team to deliver the project 20% ahead of schedule.

Projects

Scholarly Search Engine

- Engineered a scholarly search app using Python**,** Flask, and Elasticsearch for fast, accurate retrieval.
- Designed a scalable indexing pipeline for 50,000+ articles and cut query response time by40%.
- Implemented authentication, faceted filters, and keyword-weighted ranking to enhance UX and relevance
- Ensured safe, repeatable releases through input validation, query logging, and integration testing.

Fruit Disease Detection AI System

- Developed a fruit-disease classifier with CNNs (EfficientNet, MobileNetV2, ResNet50).
- Fine-tuned models and hyperparameters to reduce inference time 30% while keeping accuracy >90%.
- Validated performance on **2**9k labeled images for robust generalization.
- Systematized the workflow with seed control and clear model documentation.

EmotionToMusic-App

- Built an Android app that maps facial expressions to music using OpenCV/ML, achieving 85%+ detection accuracy.
- Optimized real-time detection to keep end-to-end latency under 1 second.
- Orchestrated UI and personalized playback logic, increasing engagement 60%.
- Enhanced usability with adjustable detection thresholds, accessible UI, and resilient error handling.