

# Vamshi Konapuram

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## Professional Summary

Backend Software Engineer with 3+ years of experience in C#, .NET, SQL, and cloud-based microservices. Skilled in developing high-scale, distributed, and fault-tolerant applications with a strong focus on performance and observability. Holds a Master's in Data Science (GPA 4.0) with hands-on experience integrating AI/ML solutions into enterprise systems, enabling intelligent decisioning and anomaly detection. Adept at collaborating with engineers, product managers, and data scientists to deliver scalable backend services across multi-cloud environments.

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## Technical Skills

- **Languages:** C#, Java, Python, SQL, JavaScript, HTML/CSS
  - **Frameworks/Technologies:** .NET, Spring Boot, RESTful APIs, Microservices, Distributed Systems
  - **Databases:** SQL Server, PostgreSQL, MySQL, Oracle, MongoDB
  - **Cloud Platforms:** Microsoft Azure, AWS (EC2, S3), Kubernetes (familiar)
  - **Tools:** Git, GitHub/GitLab, JIRA, AppDynamics, Splunk, Power BI, ServiceNow
  - **Practices:** Agile Scrum, CI/CD, SDLC, Observability, Test Automation
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## Professional Experience

### Software Development Fellow

bwtech@UMBC Research and Technology Park, Baltimore, MD

*Jan 2025 – May 2025*

- Designed and deployed data services and APIs supporting customer discovery and commercialization of biotech products.
- Leveraged SQL and Python ML models to extract insights and trends from customer/market datasets.
- Collaborated with engineers, entrepreneurs, and data scientists, applying Agile practices (WBS, sprint planning, code reviews).
- Integrated predictive analytics to support decision-making, demonstrating AI-first thinking in software solutions.

### Programmer Analyst

Cognizant Technology Solutions, Hyderabad, India

*Nov 2021 – June 2023*

- Built and maintained enterprise-scale backend modules in C#/.NET with SQL Server, ensuring scalability and high availability.
- Developed and consumed REST APIs for system integration and business workflows.
- Migrated legacy monolithic applications into microservices architecture, improving fault tolerance and maintainability.
- Deployed applications on Azure Cloud, collaborating with DevOps teams on CI/CD automation.
- Used AppDynamics and Splunk for real-time monitoring, anomaly detection, and root cause analysis, enhancing system reliability.

## **Programmer Analyst Trainee**

Cognizant Technology Solutions, Hyderabad, India

*Feb 2021 – Oct 2021*

- Supported full-stack development projects in service-oriented and distributed architectures.
  - Performed SQL-driven data analysis and dashboarding to provide insights for business stakeholders.
  - Assisted in unit testing, documentation, and integration of new features in Agile Scrum teams.
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## **Projects**

### **E-Commerce Web Application**

- Developed a Spring Boot + Angular + MySQL e-commerce site with authentication, shopping cart, and payment integration.
- Built and consumed REST APIs for product and order management.
- Deployed on AWS EC2 with Nginx for scalability.
- Implemented secure session management and fraud detection logic using anomaly analysis.

### **Distributed Pharmacy Management System**

- Built backend logic in C#/.NET with SQL Server to manage high-volume pharmacy transactions.
- Applied microservices principles to ensure scalability and fault tolerance.
- Integrated REST APIs with frontend modules for real-time inventory and transaction updates.

### **Cloud-Based Log Monitoring System**

- Designed a real-time monitoring tool using Python with AppDynamics APIs and Splunk dashboards.
  - Implemented automated anomaly detection for error spikes, reducing downtime by 20%.
  - Added alert escalation workflow with email/SMS notifications for critical system failures.
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## **Education**

**University of Maryland, Baltimore County (UMBC)** – Master of Professional Studies, Data Science (May 2025) – GPA: 4.0

**Jawaharlal Nehru Technological University, Hyderabad** – Bachelor of Technology, Electronics & Communication Engineering (May 2021) – GPA: 3.7

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## **Certifications**

- Project Management Certification – UMBC
- Getting Started with AWS Machine Learning – Coursera
- SQL for Data Science – Udemy
- Programming for Everybody (Python) – Coursera