

John Sathvik Madipalli

Pittsboro, NC | (314) 760-5381 | johnsathvik@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

AWS Certified Solutions Architect with proven expertise in designing and deploying scalable, secure, and fault-tolerant cloud architectures. Experienced in building three-tier AWS applications, continuous integration continuous deployment automation, and full-stack web solutions with measurable business impact. Adept at bridging technical design with client requirements to deliver cost-optimized, resilient systems.

Professional Experience

Community Dreams Foundation | *Volunteer Cloud Architect* Jan 2026 - Present

- Helped speed up data processing by designing AWS setups and building data pipelines for cloud projects.
- Participating in technical interest groups exploring cloud infrastructure, automation, and modern development practices.
- Collaborating with global volunteers to identify opportunities for technology-driven solutions supporting community initiatives.
- Engaging in knowledge sharing and discussions on emerging technologies and cloud platforms.

BuiltInTech | *Cloud Engineer* Jan 2023 - May 2023

- Contributed to the development and deployment of scalable web applications while supporting cloud infrastructure and deployment workflows.
- Built and launched web applications with Flask, JavaScript, and Bootstrap, helping clients deliver projects faster.
- Implemented cloud-based deployments on Linux servers, configuring domains, databases, and application environments to support reliable hosting.
- Improved backend reliability and security by optimizing server configurations and deployment processes, reducing downtime by approximately 20%
- Implemented Git-based workflows and CI/CD practices to streamline application deployment and updates.

AICTE (AWS) | *Cloud Computing Intern* Oct 2021 - Dec 2021

- Completed intensive 8-week AWS internship ahead of schedule, mastering deployment of scalable cloud applications using Amazon EC2, Amazon S3, AWS IAM, and AWS CloudFormation
- Implemented hands-on projects using AWS CloudFormation and Bash scripts to simulate enterprise-grade cloud environments, achieving high availability and fault tolerance that maintained 99.9% uptime in test runs
- Developed cost-optimized solutions reducing resource overhead by 25% through rightsizing and automation strategies

Key Projects

Cloud-Hosted Portfolio and Admin Platform (AWS)

- Designed production-grade portfolio with artificial intelligence powered retrieval augmented generation assistant using Amazon EC2, Amazon Bedrock, Amazon Route 53, and AWS IAM.
- Implemented continuous integration continuous deployment automation via GitHub Actions for reliable deployments with minimal downtime.
- Built admin module for dynamic content management, transforming static site into scalable web application.

AWS Three-Tier Customer Information System

- Built secure three-tier architecture with 99.9% uptime using Amazon EC2, Amazon RDS, Application Load Balancer, and Auto Scaling.
- Configured Virtual Private Cloud with subnets, Route 53 DNS, AWS Certificate Manager SSL/TLS, and Amazon SNS/EventBridge for monitoring.
- Strengthened security with IAM roles, Bastion Host, and network isolation.

Technical Skills

- **Cloud:** AWS, Microsoft Azure
- **DevOps & IaC:** Docker, Kubernetes, Terraform, AWS CloudFormation, GitHub Actions, CI/CD pipelines
- **Programming:** Python, Bash, JavaScript, SQL, C++, HTML, CSS
- **Frameworks:** Flask, React, Bootstrap, OpenCV, NumPy
- **Databases:** MySQL, PostgreSQL, Oracle Database, Amazon RDS
- **Monitoring:** AWS CloudWatch, Prometheus, Grafana
- **Networking & OS:** Linux, TCP/IP, DNS, Load Balancing, HTTP/HTTPS
- **Tools:** Git, VS Code, Jupyter, PyCharm, Figma, Trello
- **Certifications:** AWS Solutions Architect – Associate (SAA-C03), Microsoft Azure Fundamentals (AZ-900)

Education

Saint Louis University | *Master of Science, Information Systems* (GPA: 3.77/4.0)

St. Louis, MO Jan 2024 - Dec 2025