

# Samarth Tripathi

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## SUMMARY

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Enthusiastic developer with experience in full-stack development, DevOps, and system monitoring. Skilled in building automation pipelines, dashboards, and scalable applications using Python, Flask, FastAPI, PostgreSQL, Docker, Jenkins, Grafana, and Nagios. Strong foundation in Java, databases, and modern web technologies. Passionate about problem-solving and eager to contribute to innovative software projects.

## PROJECTS

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### 1. Network Analyzer

[GitHub Repo](#)

Built a real-time network monitoring system with Grafana dashboards and Nagios checks. Automated deployments with Jenkins CI/CD. Backend in Python + Flask with SQLite. Packaged via Docker and added alerting, logging, and CSV export features.

### 2. ReadFlow

[GitHub Repo](#)

Developed a book discovery web app using HTML, CSS, JavaScript. Integrated Google Books API to fetch book details and Google Gemini API for AI-powered recommendations and reviews. Provided responsive and interactive UI.

### 3. CircleChain

[GitHub Repo](#)

Designed a full-stack application with four dashboards. Built backend using FastAPI + Flask, validated with Pydantic models, and stored data in PostgreSQL. Implemented modular API architecture for scalability.

## EDUCATION

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2023 – 2027	B.Tech in Computer Science, <b>VIT Chennai</b>	(CGPA: 8.05)
2022	Class 12th, CBSE Board	(Grade: 81%)
2020	Class 10th, CBSE Board	(Grade: 93%)

## SKILLS

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Programming	Python, Java, JavaScript, SQL
Web & Backend	Flask, FastAPI, HTML, CSS, REST APIs
Databases	PostgreSQL, SQLite
DevOps & Tools	Docker, Jenkins, Grafana, Nagios, Git, GitHub
Other	Pydantic, Data Structures & Algorithms, Problem Solving

## CERTIFICATIONS

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Jul 2025	<b>DevOps, Agile</b> – IBM Career Education Program Credential ID: 6b196fb987714a1896ce861bdde4a2fb
Jun 2025	<b>DevOps Fundamentals</b> – IBM Career Education Program and VIT Credential ID: 4e49b030d0894363ad46f13c7b280377