

# SANJIV KANNAA J

+91 9566250207 | [jsanjiv2003@gmail.com](mailto:jsanjiv2003@gmail.com) | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)



## SUMMARY

I am a motivated Software Developer with a strong foundation in Computer Science and Engineering, specializing in Software development and DevOps practices. I have experience working on various personal and club projects. My passion is leveraging technology to solve real-world problems while constantly seeking to enhance my skills in programming and system design.

## EDUCATION

### National Institute of Technology (NIT Trichy), Tiruchirappalli B.Tech in Computer Science and Engineering

Dec 2021 - May 2025

- CGPA - 7.25/10
- Project work: Chaos Engineering in Sandbox Environment.
- Relevant coursework: Data Structures and Algorithms, Computer Networks, Operating Systems, Software Engineering, Cryptography, Network Security.

### Maharishi Vidya Mandir Sr. Sec. School CBSE - Class 12

April 2018 - May 2021

- Percentage - 93.80%
- Group - Computer science with mathematics.

### Maharishi Vidya Mandir Sr. Sec. School CBSE - Class 10

April 2017 - May 2019

- Percentage - 84.40%

## EXPERIENCE

### Bajaj Auto Credit Ltd — Software Development Engineer

July 2025 - Current | Pune, Maharashtra

- Exploring potential roles across departments within Tech and Digital Transformation.
- Currently undergoing onboarding and training.

## KEY ACHIEVEMENTS

### Increased Deployment Speed

Automated cloud infrastructure provisioning using Terraform and Ansible, reducing setup time by 70% ensuring consistent, production grade deployments.

### Deployment Efficiency Boost

Integrated DevOps pipeline reducing deployment time.

### Streamline Infrastructure Migration

Completed migration with zero downtime utilizing DB master-slave architecture, ensuring ~100% service availability.

## SKILLS

Git/GitHub, Object-oriented Programming (OOP), Test-Driven Development (TDD), Behaviour-Driven Development (BDD), Agile

C, C++, Python, GoLang, JavaScript (Node.js), Bash

Express.js, React.js, Flask, FastAPI, SQLAlchemy

VS Code, Postman, Burp Suite, pip, node package manager(npm)

Docker, Kubernetes, Linux/UNIX, CI/CD,

## NTU, Singapore — *Software Development Internship*

Jan 2024 - July 2024 | Remote

- Developed live network traffic detection and cryptographic monitoring systems focused on post-quantum algorithms.
- Automated backend deployments and monitoring, improving threat response time.
- Leveraged expertise in backend development and software automation.

## Spider R&D — *Software Development Volunteer*

Aug 2022 - Jan 2025 | NIT Trichy

- Software Developer at Spider R&D, the Software Research and Development club of NIT Trichy.
- Developed RESTful APIs using Flask and Node.js to support internal project requirements.
- Integrated backend services with MySQL/PostgreSQL and Redis for efficient data handling.
- Applied authentication and role-based access control to secure backend APIs.

## PROJECTS

### Chaos Bank — *Scalable Banking Web App*

Python, Node.js, React.js, Docker, Kubernetes, AWS

- Built a banking app with CI/CD, IaC, container orchestration, and secure backend (TLS, MySQL master-slave).
- Developed a custom chaos injection engine to simulate failures and validate system resilience.
- Load tested using K6; ensured fault tolerance and self-healing under stress.

### NoCaine — *DarkWeb Crawler*

Python, GoLang, Docker, MongoDB, Redis, Apache Kafka, Roberta LLM

- An Event-Driven DarkWeb Crawler designed to find websites promoting illegal activities and de-anonymise by identifying misconfigurations.
- This project was built with the cyber police in mind to help them discover cyber villains.
- **Contribution** - Development of Web Crawler, message queueing using Apache Kafka, microservice integration.

### Sports Registration Portal - NIT Trichy

GoLang, gRPC, MySQL, Docker, AWS

- Engineered a high-throughput backend for a sports event registration system that supported 3000+ concurrent users during peak traffic
- **Contribution** - Application unit testing, Application performance testing, Contributed to Backend, Project monitoring and maintenance.

Gitlabs CI, Github Actions, Jenkins CD, Terraform, Ansible, Prometheus Grafana, Glances

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AWS(EC2, ECS, ECR, EKS, S3, RDS, VPC, IAM)

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MySQL, PostgreSQL, MongoDB, Redis

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Microservice architecture, JWT, RESTful APIs, OAuth, Apache Kafka

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Good team collaborator,  
Good communication skills,

## AWARDS

Winner of Smart India Hackathon (SIH'24) in the domain of cybersecurity.

Runner up of RACCAM '24 hackathon.

## LANGUAGES

English, Tamil, Hindi