SANJIV KANNAA JEGANATHAN

jsanjiv2003@gmail.com | +91 9566250207

GitHub | Portfolio | Linkedin

EDUCATION

National Institute of Technology, Trichy   Tiruchirappalli
Computer Science and Engineering B.Tech   Dec 2021 - May 2025

EXPERIENCE

NTU Singapore | Software Engineering Intern   Remote | Jan 2024 - June 2024
Developed and deployed a live network traffic detection system and cryptographic algorithm monitoring service with a focus on Post-Quantum Cryptography. Leveraged expertise in backend development and automation to optimize performance and scalability. Played a key role in enhancing security solutions for large-scale network infrastructures, ensuring efficient cryptographic algorithm transitions and strengthening overall system security.

Spider RnD | DevOps Engineer   NIT Trichy | Aug 2022 - May 2025
As a part of Spider R&D, the Software Research and Development club of NIT Trichy, I have contributed to various projects improving my skills on Docker, Kubernetes, managing Dev and Production Servers, etc. I have participated in various Capture The Flag (CTF) events such as SekaiCTF, CS rumble, and PicoCTF to mention a few. I have also conducted various workshops on the topics of Web Development and Cybersecurity awareness.

SKILLS

Programming Languages:	Python, C++, JavaScript, GoLang
Libraries/Frameworks:	Flask, NodeJS
Tools / Platforms:	Git, Docker, AWS, Terraform, Ansible, CI/CD, Nginx, Apache Kafka, Jenkins
Databases:	MySQL, MongoDB, Redis, SQLite

PROJECTS / OPEN-SOURCE

NoCaine Web Crawler | Link   *GoLang, Python, MongoDB, Redis, Apache Kafka, Docker, Roberta LLM*
NoCaine, a **web crawler** designed to scan well-known anonymous networks such as TOR for illegal activities and identify misconfigurations that could expose the **identities of individuals** behind these sites.
This project was built with the cyber police in mind and help them discover cyber villans.
Contribution - Development of Crawler, message queueing using Apache Kafka, etc.

ChaosBank | Link   *Python, Flask, MySQL, Docker, Nginx, Terraform, Ansible, AWS*
Developed a simple banking web application and implemented DevOps practices, including containerization, load balancing, infrastructure-as-code, CI/CD, and monitoring, scaled databases, secure HTTPS communications with TLS/SSL, Scaled DataBases. And the application was load tested under various situations.
The motive of the project was to build a application using DevOps practices and apply Chaos Engineering Principles.

Sports Registration Portal   *NodeJS, gRPC, GoLang, mySQL, Redis, Docker, Jenkins, AWS*
Developed a high performance registration portal for the gym and swimming pool facilituies of NIT Trichy. Designed and tested to handle upto 3000 requests per minute. The portal also featured a user friendly interface, providing real-time slot information leveraging server streaming.
Contribution - DevOps, testing, overall managing of software development phase.

HONORS & AWARDS

- Winner of Smart India Hackathon 2023
- Winner of RACCAM '24 Hackathon