

# SAKTHIVEL PALANISAMY

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## Profile

Experienced software engineer with expertise in full-stack development, DevSecOps, automation testing, and Golang. Skilled in designing, developing, and securing microservices applications. Passionate about optimizing CI/CD pipelines, cloud security, and scalable microservices.

## Professional Experience

### Senior Software Engineer

Sony India Software Centre

06/2023 | Bangalore

#### Senior DevSecOps Engineer

- Designed and applied secure CI/CD pipelines for cloud-native applications.
- Integrated security tools like **OWASP ZAP**, **grype**, **osv-scanner**, **Sigstore Cosign**, and **Restler** into CI/CD workflows.
- Managed Kubernetes clusters, enforced security policies using **OPA/Gatekeeper**, and implemented Istio service mesh for improving network management and security.
- Automated workflow to scan, detect, and triage the vulnerabilities using an external datasource like NVD, First.org  , ...
- Created an **MCP client**(typescript) for LLM models to communicate with **MCP servers** like cve\_search, cve\_scanner, ...

### Software Engineer

Sony India Software Centre

2020 – 2023 | Bangalore

#### Full-stack developer

- Developed RESTful APIs for scalable microservice applications.
- Built and optimized microservices with **ExpressJS**.
- Deployed and monitored applications on **Kubernetes** using **FluxCD GitOps**.
- Enforced **authentication** and **authorization** with JWT and OAuth.
- Implemented a separate microservice for access control management.

#### Automation Tester

- Designed and executed automated UI and API tests for web applications using Python and Shell.
- Developed test frameworks using Selenium, Playwright, JMeter, and Pytest.
- Automated all tests in CI/CD pipelines, improving release efficiency.
- Reduced repetitive work to improve working efficiency.

#### AI/ML engineer

- Utilized and reworked the darknet model to find the abnormal activities in the office and reduced the storage of empty footage.
- Supported face detection model development and training.
- Submitted PoCs for theft protection using darknet and OpenCV.

## Skills

NodeJS, React, Angular, FastAPI	TypeScript, Python, C++, GoLang, Rego
Docker, Kubernetes, Flux CD, GitHub Actions, Azure, AWS	Service mesh (istio, cilium)
Selenium, Playwright, Pytest, JMeter, OWASP ZAP, Restler	Security scanning (SAST, DAST), OPA/Gatekeeper, Sigstore Cosign, Grype, Trivy, osv-scanner
Git, GitHub	Make, CMake, Bazel
MySQL, MongoDB	Deep Learning (Pytorch, tensorflow), ELK stack
Linux, Shell	

## Education

<b>B.E Computer Science and Engineering</b> <i>V.S.B engineering college</i> 7.3 CGPA	07/2016 – 05/2020   Karur, Tamil Nadu
<b>Higher Secondary</b> <i>Vivekananda Vidhyalaya</i> 86.5%	2014 – 2016   Muthur, Tamil Nadu
<b>SSLC</b> <i>Shanthi Nikethan Higher Secondary School</i> 93.4%	2012 – 2014   Kangeyam, Tamil Nadu

## Awards

<b>Best performer of the year</b> <i>Sony India software Centre</i>	2025
<b>Best team of the quarter</b> <i>Sony India software Centre</i>	2024
<b>Best performer of the quarter</b> <i>Sony India software Centre</i>	2024
<b>Led an annual business meet as a captain and won runner-up</b> <i>Sony India software Centre</i>	2023
<b>Best performer of the quarter</b> <i>Sony India software Centre</i>	2022
<b>Secured 5 th place in Amazon Deep Racer competition</b> <i>Sony India software Centre</i>	