

SAKTHIVEL PALANISAMY

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📍 Kangeyam, TamilNadu

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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

06/2023 | Bangalore

Sony India Software Centre

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

2020 – 2023 | Bangalore

Sony India Software Centre

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

Docker, Kubernetes, Flux CD, GitHub Actions, Azure, AWS

Selenium, Playwright, Pytest, JMeter, OWASP ZAP, Restler

Git, GitHub

MySQL, MongoDB

Linux, Shell

Typescript, Python, C++, Golang, Rego

Service mesh (istio, cilium)

Security scanning (SAST, DAST), OPA/Gatekeeper, Sigstore Cosign, Grype, Trivy, osv-scanner

Make, CMake, Bazel

Deep Learning(Pytorch, tensorflow), ELK stack

Education

B.E Computer Science and Engineering

V.S.B engineering college

7.3 CGPA

07/2016 – 05/2020 | Karur, Tamil Nadu

Higher Secondary

Vivekananda Vidhyalaya

86.5%

2014 – 2016 | Muthur, Tamil Nadu

SSLC

Shanthi Nikethan Higher Secondary School

93.4%

2012 – 2014 | Kangeyam, Tamil Nadu

Awards

Best performer of the year

Sony India software Centre

2025

Best team of the quarter

Sony India software Centre

2024

Best performer of the quarter

Sony India software Centre

2024

Led an annual business meet as a captain and won runner-up

Sony India software Centre

2023

Best performer of the quarter

Sony India software Centre

2022

Secured 5 th place in Amazon Deep Racer competition

Sony India software Centre