SAKTHIVEL PALANISAMY

Senior Software Engineer | DevSecOps & AI Security Specialist (+91) 6383347238 | sakthikgm2211@gmail.com | [Portfolio](#)

EXECUTIVE SUMMARY

Experienced Senior Software Engineer with expertise in full-stack development, DevSecOps, and Golang. Proven track record in designing, securing, and scaling cloud-native microservices and CI/CD platforms. Specialized in AI-driven security automation and zero-trust networking architectures.

CORE COMPETENCIES

- **Languages:** TypeScript, Python, C++, Golang, Rego, Shell, SQL.
- **DevSecOps & Cloud:** Kubernetes, Docker, Istio, FluxCD, Azure, AWS, GitHub Actions.
- **Security Tools:** OPA/Gatekeeper, OWASP ZAP, Sigstore Cosign, Grype, Trivy, osv-scanner.
- **Frameworks:** Node.js, React, Angular, FastAPI, ExpressJS.
- **AI & Automation:** Deep Learning (PyTorch, TensorFlow), OpenCV, Playwright, Selenium.

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Sony India Software Centre | June 2023 – Present

- **DevSecOps & Security Orchestration:** Architected and deployed enterprise-grade CI/CD platforms for cloud-native environments, integrating automated security gates including SAST, DAST, and SCA via OWASP ZAP and Grype.
- **Infrastructure Hardening:** Led Kubernetes security initiatives by enforcing Policy-as-Code with OPA/Gatekeeper and implementing Istio service mesh to achieve zero-trust networking and deep observability.
- **AI-Driven Security Automation:** Engineered a TypeScript-based MCP (Model Context Protocol) client to bridge the gap between LLMs and security tools, enabling programmatic AI-driven vulnerability analysis.
- **Centralized API Governance:** Designed and managed the "FastMCP" gateway, integrating Atlassian and GitHub servers to provide secure key management and centralized service orchestration across global teams.
- **Vulnerability Intelligence:** Developed an automated intelligence pipeline that correlates real-time data from NVD and FIRST.org, significantly accelerating the triage and remediation of critical vulnerabilities.

Software Engineer | Sony India Software Centre | Oct 2020 – June 2023

- **Microservices Architecture:** Designed and maintained high-concurrency RESTful APIs using Node.js and ExpressJS, focusing on the reliability and scalability of production-grade services.
- **GitOps & Continuous Delivery:** Modernized deployment workflows by implementing GitOps via FluxCD on Kubernetes, ensuring every production change was auditable and automated.
- **Quality Engineering:** Established a full-stack automated testing framework—incorporating Playwright, Selenium, and JMeter—which accelerated release cycles and eliminated manual regression testing.
- **Identity & Access Management:** Developed a custom microservice for centralized authentication and authorization using JWT and OAuth protocols.
- **AI & Computer Vision Applications:** Leveraged OpenCV and Darknet models to develop real-world surveillance solutions, including theft detection and automated activity monitoring.

AWARDS & ACHIEVEMENTS

- **Best Performer of the Year** (2025).
- **Best Performer of the Quarter** (2025: Q2, 2022: Q1).
- **Best Team of the Quarter** (2025: Q3).
- **Organization-level Runner-Up** (Team Captain for Annual Business Meet, 2022).

EDUCATION

- **Bachelor of Computer Science and Engineering** (2016-2020)
  - V.S.B Engineering College, Karur | 7.3 CGPA