Gururajan Padmanaban
AI Innovator & Software Expert | GenAI Solutions Architect

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Summary

Results-driven AI Innovator and Senior Software Engineer with 10+ years in IT and Freelancing. Proven expertise in architecting and developing scalable GenAI solutions, enterprise software, and cloud-native systems. Specialized in AI security, developing patent-pending AI wrapper technology (SecureLLM) to enhance decision-making and safeguard models. Adept at leading modernization efforts, optimizing cloud infrastructure (AWS), and delivering high-impact, cost-effective solutions. Seeking to leverage AI and software engineering skills to drive innovation in challenging roles.

Professional Experience

Senior Software Development Engineer   Jan 2023 - Present
Trellix

- Invented, developed, and productized **SecureLLM**, a privacy-first AI security wrapper (Patent Pending, Hackathon Winner).
- Designed & implemented GenAI tools for automated threat reporting and analysis using AWS Bedrock & LangChain.
- Led plugin modernization, migrating legacy systems to cloud-native AWS architectures (ECS, Lambda).
- Contributed significantly to company's IP portfolio through multiple patent filings in AI security.

Sr. DevOps Engineer   Mar 2022 - Dec 2022
FireEye, Inc.

- Engineered AWS data pipeline optimizations (Athena, S3), achieving **>99% cost reduction** & 95% storage savings.
- Architected and delivered Dashboard as a Service (DaaS) integrating AWS QuickSight with Okta SSO.
- Developed automated systems for AWS usage monitoring and user access management using Python & REST APIs.

Full Stack Developer   Jan 2019 - Jul 2021
FIRST ADVANTAGE

- Developed and enhanced key applications including ePay Invoice Portal and multi-domain DMS (Alfresco).
- Contributed to converting monolithic applications to microservices using Django, Python, and Spring Boot.

Key Projects

SecureLLM – AI Security Wrapper
Privacy-first GenAI security layer addressing OWASP LLM vulnerabilities. Supports local CPU & cloud deployments.
Tech: Python, FastAPI, Docker, AWS, LangChain, LLMs (Local/Cloud)

GenAI4RepDB – Threat Intelligence Automation
Suite of GenAI tools integrated with reporting DB for automated cybersecurity insights and executive summaries.
Tech: AWS Lambda, AWS Bedrock, Python, LangChain, OpenAI/Anthropic APIs

AWS Cost Optimization Initiative
Redesigned data querying and storage strategy using AWS Athena partitioning and S3 lifecycle policies.
Tech: AWS S3, Athena, Glue, Lambda, Python

Education

Master of Science (MSc), Computer Science   2013 - 2015
Don Bosco College, Dharmapuri
Grade: A+ (Distinction)

Skills

AI & Machine Learning
GenAI, LLMs (OpenAI, Anthropic, Llama), LangChain, LLMOps, AI Security (OWASP Top 10 for LLMs), AI Product Development, RAG

Cloud & DevOps
AWS (Lambda, Bedrock, S3, ECS, EC2, Athena, QuickSight, Glue), Docker, Kubernetes, CI/CD, Cost Optimization

Programming & Frameworks
Python (Expert), FastAPI, Django, C#, .NET Framework, REST APIs, SQL

Professional
Innovation Leadership, Problem Solving, Technical Architecture, Enterprise Integration, Patent Filing, Agile Methodologies

Awards & Recognition

AI Wrapper Tech - Hackathon Winner & Patent Filed
Trellix (NEBU), 2024

Multiple Patent Applications (Generative AI Security)
Filed 2024

Accountable & Empowered Award
FADV, 2020

Delivery Excellence & Result Focused Awards
FADV, 2019