Vani Yalapalli

Senior Technical Program Manager | Software Product Leadership

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SUMMARY

Senior Architect and Technical Program Manager with 15+ years experience showcasing strong leadership - in delivering Intel CPU telemetry based Security products that utilize AI & ML Algorithms for threat detection & response, leading multiple cross-functional teams in a matrixed org deliver, integrate & deploy platform security solutions to Intel Client, Server customers & Security eco-system partners. Leading technical guidance on CPU platform architecture, hardware & software security, enabled multiple security & connectivity products delivery & integrations by customers. Domain & technical expertise in System software development, Endpoint Security, Cloud Security, AI stacks, AI based security products, CPU, NPU, GPU architectures

EXPERIENCE

NPU Customer Enablement Technical Program Manager
Intel Corporation, Hillsboro, Oregon   10/2023 - 11/2024

• Customer facing role, as a Product & Program manager leading technical collab & support, enabled 10 Client eco-system partners to leverage NPU in AI PC platform run Deep Learning Security use cases on the Endpoint, on premise taking advantage with benefits of low latency & low cost. Managed support of NPU Hardware infrastructure, software stacks & OpenVino API technical support, performing customer management, risk & dependency management, cross-functional teams collaboration & communications, Led technical debug & problem solving sessions with customers to finalize possible solutions to the API & driver issues reported & capture NPU inference benchmarks to enable successful launch/GTM of AI PC platforms.

Endpoint Security Software Program Manager
Intel Corporation, Hillsboro, Oregon   06/2016 - 11/2024

• **For 8 years, Led high performing software teams to deliver solutions for Threat Detection & Response, Supply Chain Security**

• **Customer engagement & technical guidance** to integrate, deploy AI based Security solution by top Security ISVs, in both Client & Server, managed external stakeholder collaboration & communication, engaged with 20+ security ISVs and eco-system partners (Endpoint security & Cloud Security) successful integration & deployment of AI based Ransomware & Cryptomining threat detection software, (Intel® Threat Detection Technology(TDT)) to leverage Intel CPU telemetry for real-time detections, & enhance Security ISV's threat detections & enable millions of Intel Client systems enabled with HW based security solutions & GPU offload capabilities to detect file-less attacks

• **Technical Program Manager,** led cross-functional teams collaboration & communications, project scope, goals & objectives tracked project execution & status reporting to leadership, managing product budget & operations, technical problem solver, software teams project tasks aligning with overall product goals & OKRs, effectively leveraging Agile methodologies proactive management of project execution, handling shifting priorities, project risk, dependency assessment & management, weekly status reporting to leadership, towards multiple successful product delivery & roadmap over 6 years

• **Leading, managing launch/GTM, integration & deployment** of TDT software, kernel driver & AI models in a large scale 500+ million consumer/enterprise Intel client systems running EDR products with Endpoint threat detection & response, anomaly detections, enabling high impact & value to Security ISV

• **Led technical guidance & product leadership** - Security software architecture, leading & scaling ML DevOps automation efficiencies of AI model training & leading model efficacy goals/objectives, full software stack validation & security validation guidance, CI/CD pipeline efficiencies, automating Security SDLC of product releases towards successful integration, deployment by multiple external ISV partners

• **Security Expertise** – Anomaly detections, Threat Detection & Response, Threat Modeling to identify threats, risks & mitigation plans, guiding engineering on Security SDLC Practices & generating reports, Endpoint Security products for Client & Server, Threat analysis and reporting to the leadership

• **People Management** - Results oriented manager 7 years experience, led high performing diverse team of 15+ senior & junior engineers, in a collaborative, motivating environment, focused on the teams performance & growth in skills, company culture/values consistently executing on product strategy towards successful delivery of AI based security software products

Secure Authentication & Identity Protection Software Stack Program Manager
Intel Corporation, Hillsboro, Oregon   03/2011 - 2016

• **Led high performing software teams, delivered** Intel Online Connect Authenticate (IOCA) product for endpoint security, leveraging Intel client CPU, partnered with OEM customer and engineering teams to define project scope & product goals, defining online/web auth & secure payments use cases, & roadmap for the deliverables. Defined and communicated the hardware, software tools, resources, cost, scope to achieve project goals

• **Collaborated with cross-functional teams** and managed software & firmware implementation, feature prioritization, project execution & tracking with Agile process, performed SDLC & timely release of the product

• **Led product** deliverables for enabling & deploy Intel® Identity Protection (IPT) stack for Intel Client, Root of Trust features, firmware implementation on Intel Client security HW platform, designed software stack communication flows with CSME (Intel Security Manageability engine) firmware components

TECHNICAL SKILLS

- **Security Solutions expertise** - Client, Endpoint Security & Data Centers Security software, Cloud infrastructure security, AI based Security products, Security software & Firmware design & implementation
- **Software stacks & Firmware** - Product execution, project management, Deeply technical, Detail Oriented, Problem Solving,
- **Software Program & product management** - Cross-functional teams collaboration in a matrixed Org, Stakeholder management, project Risk/Dependency management
- **CyberSecurity Expertise** - Threat Detection & Response Tools, Supply Chain Security solutions, Threat Modeling of software stacks, Threat Risk & Vulnerability Management, MITRE Mapping, Threat Intelligence, Malware Analysis, SIEM, SOC operations
- **Programming Languages** - C, C++, Python, Java, Javascript; Operating Systems - Linux, Windows
- **Windows & Linux Kernel drivers/Interfaces,** eBPF design for drivers, Secure boot, Root of trust Firmware, Cryptography, TPM (Trusted Platform Module), Linux eBPF, Linux Kernel & Perf, Linux Firmware
- **CPU** - x86 , GPU, NPU Architectures, CPU security features - PMU, Processor Trace, CET, SGX
- **AI Tools** - PyTorch; AI/ML Algorithms for anomaly detections Classification & Clustering algorithms

PROJECT MANAGEMENT SKILLS

- **Secure SDLC, CI/CD pipeline optimizations, CI/CD SecDevOps, AI/ML DevOps Automation, Cloud Frameworks & Docker Containers**
- **Agile/Scrum Methodologies, JIRA, CONFLUENCE**
- **Security posture for software stacks, Secure coding, Security focused reviews, SIEM Tools & SOC Operations**
- **People Management - Performance management, leading, coaching, growing high performing engineering teams**
- **CISSP, PMP certifications**

Additional Experience

Intel Corporation, Hillsboro, Oregon Symbol Technologies, Santa Clara, CA   **03/2002 - 2011**

- **Software Engineer** - Sofwtare features, product deliverables for Intel IPT (Identity Protection Technology)
- Intel® Proset stack - WiFi authentication protocols and supplicant for Intel Client Wifi - WiFi 802.11 client software stack that communicates with the hardware for wireless connections. Implemented WiFi Supplicant stack for EAP authentication protocols
- **Software Developer/Lead** - WiFi 802.11 client stack design, user space/driver improvements, modifications to configure the wifi chip. WiFi authentication software stack implementation

EDUCATION

Master of Science in Electronics and Communications Engineering Anna University, India

PATENTS

Intel Corporation Patent - Method and Apparatus for hardware assisted secure real clock management

Intel Corporation Patent - Conditional Login promotion