

VIKAS JAIN

- ❖ AI Innovator
- ❖ Engineering Leader
- ❖ DevOps Expert

PROFILE SYNOPSIS

Dynamic Lead Software Engineer with 13+ years of expertise in designing and developing innovative solutions in networking and cybersecurity domains. Skilled in AI-powered applications, microservices, and cloud-based architectures, with a strong focus on Kubernetes, Docker, and CI/CD pipelines for scalable and efficient systems. Proficient in C++, Python, and Golang, with demonstrated ability in team leadership, agile practices, and delivering high-performance, AI-driven products. Certified Kubernetes Administrator with a proven track record of enhancing performance and reducing costs through optimization and automation.

PROFESSIONAL EXPERIENCE

Intel Technologies, Bangalore, India Lead Software Engineer | Nov 2021 – Present

- Directed the development of AI-powered security solutions for heterogeneous compute environments, managing a team of 5+ engineers.
- Optimized cloud infrastructure through Kubernetes and Docker-based microservices architecture, achieving a 20% reduction in operational costs and a 25% improvement in performance.
- Spearheaded DevOps automation initiatives using Ansible, Jenkins, and CI/CD pipelines, reducing deployment times by 50%.

Juniper Networks, Bangalore, India Senior Software Engineer | Dec 2015 – Nov 2021

- Designed and implemented Jvision, a high-performance telemetry collection system leveraging C++ and Protocol Buffers for gRPC communication, enhancing real-time data transmission and diagnostics.
- Engineered critical L2VPN support functionality within the xSTP protocol, significantly improving network stability and Layer 2 VPN capabilities.

Cisco Systems, Bangalore, India Senior Software Engineer | June 2013 - Dec 2015

- Developed and maintained GETVPN, an enterprise VPN solution for Cisco IOS, using C and C++ to ensure secure, scalable VPN functionality.
- Contributed to key architectural discussions, influencing design decisions and product roadmaps.

Thomson Reuters, Bangalore, India Senior Software Engineer | Nov 2011 – Jun 2013

- Enhanced a C-based ETL engine for extracting, transforming, and loading financial data, ensuring data accuracy and performance.
- Delivered system stability improvements by resolving critical bugs and implementing key features.

Nokia Solutions Network, Bangalore, India Software Engineer | Sep 2010 – Jun 2011

- Developed robust C++-based unit tests to validate product reliability and functionality.
- Addressed and resolved customer-reported issues, improving system stability and user experience.

CONTACT DETAILS

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TECHNICAL SKILLS

- Languages:** C, C++ (Preferred), Python, Golang
- Tools/Technologies:** Kubernetes, Docker, Jenkins, Ansible, Vagrant
- Cloud Platforms:** AWS, GCP, Azure
- Version Control:** Git, GitHub, GitLab
- Networking:** L2/L3, TCP, UDP, DHCP, DNS, xSTP, System Telemetry, VPN
- Cybersecurity:** AI-powered L4 Load Balancer, Envoy based AI- Powered L7 Security Solutions, Malware detection

SOFT SKILLS

- Leadership:** Team Release Management, Critical Customer Issue Resolution
- Agile Practices:** Scrum Leadership, Sprint Planning, CI/CD, Leading Cross-functional Teams

ACADEMIC CREDENTIALS

- Bachelor of Technology in Electronics communication,** RGTU, Bhopal, India, CGPA: 8.7/10, 2004 – 2008

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- Scrum Master Certified

❑ SELECT PROJECTS

TADK: Traffic Analytics Development Kit

- Spearheaded the development of an AI-powered network security toolkit achieving 99.8% accuracy in detecting and preventing malware attacks (e.g., SQLi, C2C, XSS).
- Designed a multi-threaded batching mechanism using dGPU acceleration and heterogeneous compute, boosting performance 3x over single-threaded CPU implementations.
- Built C++-based systems to extract network packet features and generate histograms for AI-driven malware detection.

Technologies: C++, Python, Parallel Programming, Intel oneAPI, Machine Learning, Deep Learning

MalText: Malware Detection in Attachments

- Engineered a high-performance solution for real-time malware detection in MS document attachments using Envoy, Lua, and NLP-based classification models.
- Developed an architecture with Envoy Lua filters, an SDK client for preprocessing, and a gRPC-based server for inferencing, enabling CPU-optimized detection.
- Integrated the solution into SASE POP architectures to block malicious HTTP requests before backend server interaction.

Technologies: C++, Lua, Envoy, Intel oneAPI, Machine Learning, Deep Learning

AI-Powered L4 Load Balancer (*In Progress*)

- Contributing to an innovative AI-driven L4 load balancer using FD.io VPP for the data path and machine learning models for dynamic traffic distribution.
- Implementing flow feature extraction and predictive modeling to optimize backend server weight assignments, aiming to enhance load balancing efficiency.

Technologies: C++, Go, Intel oneAPI, Ansible, Vagrant