

Ved Ratan

[✉ vedratan10@gmail.com](mailto:vedratan10@gmail.com) [📞 Mobile: +91-8887624467](tel:+918887624467) [LinkedIn](#) Ved Ratan [GitHub](#) VedRatan [Portfolio](#)

EDUCATION

- **Indian Institute of Information Technology(IIIT), Gwalior**
Bachelor of Technology - Computer Science and Engineering
CGPA 7.2/10

Madhya Pradesh, India
2020 Aug - 2024 May

EXPERIENCE

Associate Software Engineer - Rakuten India	July 2025 - Present
<ul style="list-style-type: none">• Designed and built a centralized cookie management service using Kotlin and Vert.x, leveraging reactive programming for non-blocking I/O and high-throughput request handling.• Implemented event-driven, asynchronous workflows with Vert.x to efficiently manage legacy cookie lifecycle, ensuring scalability and low latency under load, following clean architecture.• Developed a Go-based load generator capable of producing 90k QPS with Kerberos authentication, used for performance and stress testing of ENS.• Implemented the ENS (Event Notification Service) on Vector(Datadog), achieving 30k QPS end-to-end throughput across Kafka source and sink pipelines.• Technologies: Golang, Kotlin, Vert.X, Kafka, Kerberos, Jenkins, Bitbucket.	
SWE Intern - Nirmata	Apr 2024 - March 2025
<ul style="list-style-type: none">• Developed an offline cluster scanning feature in Nirmata's CLI, enabling local security policy validation without SaaS dependencies—reducing onboarding time by 50%, expanding support for 100% of air-gapped environments.• Customized Nirmata's platform for on-prem deployment, cutting client's external dependency by 100%.• Automated vuln scanning across 10+ repos with Slack alerts, reducing critical CVE fix time by 80%.• Implemented repo-scanning in Nirmata's CLI, enabling Kyverno policy validation for private/public repos and benefiting 70% of customers.• Enabled scanning of helm, K8s workload YAML located on GitLab, Bitbucket, and self-hosted VCS and improved performance by reducing scan time 83% (2 min → 20 sec).• Technologies: Golang, Grype, Trivy, Helm, Kubernetes.	
SWE Intern - AccuKnox	Oct 2023 - Apr 2024
<ul style="list-style-type: none">• Enhanced Nimbus (an intent-based security platform) by integrating a Kubernetes adapter powered by Kyverno, expanding 5G threat detection coverage by 2x while ensuring real-time compliance.• Authored 6+ security intents for 5G blueprints, mitigating 10+ attack vectors.• Automated native policy generation reduced remediation time by 65%, hardening 5G network security.• Technologies: Golang, Kubernetes, Kubernetes Security.	
Linux Foundation Mentorship LFX'23 Contributor - Kyverno	June 2023 - Aug 2023
<ul style="list-style-type: none">• Built a Kubernetes controller to auto-cleanup unused resources, reducing cloud waste by 15%.• Scaled Kubernetes controller to handle 2,000+ resources concurrently, ensuring high performance in production environments.• Utilized Golang for concurrent implementation, ensuring thread safety, and preventing resource leakage.• Technologies: Golang, Kubernetes, Kyverno.	

SKILLS SUMMARY

- **Languages:** Golang, C/C++, Java
- **Databases:** MySQL, Postgres, MongoDB, Redis
- **Technologies:** Docker, Kubernetes, ArgoCD, Helm, Vector(Datadog), Kafka, Kerberos
- **Frameworks:** SpringBoot

PROJECTS

K8sWatchDog:

- A Kubernetes-native tool that integrates **K8sGPT** to automatically detect and remediate faulty resources in real time, improving cluster reliability and reducing manual intervention.
- Controller auto-remediates faulty resources using K8sGPT CRDs and AI, **reducing incident resolution time by 40% and manual effort by 70%**.
- **Technologies:** Golang, GitLab CI/CD, Docker, Kubernetes, ArgoCD.