

Kovid Tiwari

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EDUCATION

Vellore Institute of Technology, Bhopal

M.Tech (Integrated) - Computer Science and Engineering with Specialization in Cyber Security

CGPA: 7.55

Jun. 2020 - Jun. 2025

Kendriya Vidyalaya

Seoni, Madhya Pradesh

XII: 63.8%

Mar. 2019 - Apr. 2020

Kendriya Vidyalaya

Seoni, Madhya Pradesh

X: 62.5%

Mar. 2017 - Apr. 2018

TECHNICAL SKILLS

Languages: Java, Python, SQL, HTML/CSS, JavaScript

Frameworks: React.js, NIST, MITRE ATT&CK, SIEM, OWASP, Bash(Shell)

Tools: Git, Linux, Selenium, Katalon, Docker, Kubernetes, Jenkins, CI/CD, Terraform, Jira

Familiar Skills: AWS, Database, Networking, Operating System, Testing, Programming, Agile, End user Documentation

PROJECTS

ConvoFlow: React-Powered Video Conferencing App with Real-Time Communication

React Js, AWS, Firebase, WebRTC, Tailwind CSS, TensorFlow Js, Open CV

Sep. 2024 - Nov. 2024

- Developed and optimized a scalable React.js and WebRTC application, enabling real-time video communication with support for 50 concurrent streams, improving performance and user experience.
- Designed and implemented automated deployment workflows using AWS, Kubernetes, and CI/CD pipelines, reducing manual setup time by 75% and enhancing software efficiency.
- Applied software engineering best practices, debugging, and troubleshooting techniques to improve system reliability, integrating fault-tolerant distributed computing and optimizing bandwidth usage within 50GB limits.
- Strengthened application security and infrastructure resilience by implementing AWS WAF, mitigating 98% of web-based threats, and ensuring compliance with industry security standards.
- Collaborated in full software development lifecycle (SDLC) processes, including requirements analysis, design, testing, and performance optimization, contributing to high-quality software solutions.

Deployment of Cloud Native Monitoring Application on Kubernetes

Python, Flask, Docker, Kubernetes, AWS, CI/CD

May. 2024 - Jul. 2024

- Implemented a Python-based monitoring solution using Flask, Docker, and Kubernetes, integrating AWS ECR for containerization and deployment. Ensured efficient application performance and scalability, aligning with modern software engineering methodologies.
- Addressed Terraform automation scripts for seamless multi-cloud infrastructure provisioning, optimizing workflows and ensuring efficient integration with AWS and Kubernetes for high-performance software solutions.
- Enhanced reliability, security, and performance for 200+ microservices in decentralized systems, contributing to software diagnostics, troubleshooting, and application enhancements to meet evolving business requirements.
- Created and maintained end-user and technical documentation, defining system processes, software architectures, and debugging procedures to support seamless collaboration, quality assurance, and continuous software improvements.

Docker Protocol Team Project: CIAM - Container Identity Access Management

Flask (Python), JavaScript, ReactJS, Next.js, Docker, Bash

Oct. 2023 - Dec. 2023

- Optimized scalable SQL databases to enhance application performance and data flow efficiency in large distributed systems, reducing query latency by 30%, maintained technical documentation, ensuring seamless system integration and clarity in database design.
- Proposed automation scripts and secure access controls, aligning with ISO 27001 standards to enhance security compliance by 40%. Automated repetitive business application workflows using scripting tools, improving system efficiency and enforcing secure authentication protocols.
- Integrated blockchain-based immutable storage solutions, increasing data integrity by 50% and enhancing auditability for financial transactions. Applied secure coding practices to develop scalable and compliant solutions, while documenting blockchain workflows and integration guidelines.
- Engineered and tested advanced storage solutions, achieving a 30% increase in deployment reliability and minimizing downtime. Conducted system analysis, debugging, and performance testing, ensuring scalability and operational efficiency. Provided technical reports and troubleshooting documentation to optimize software architecture and storage solutions.

CERTIFICATIONS

• **AWS Certified Cloud Practitioner** | Amazon Web Service

Dec. 2023

• **Software Test Automation Virtual Internship Program** | Smart Internz

Jun. 2023

• **Junior Cybersecurity Analyst Career Path** | Cisco

Apr. 2022

ACHIEVEMENTS/ CO-CURRICULAR

- Solved 490+ problems on Leetcode, achieved 6th position on GeekforGeeks
- Earned 5 Stars in Java, Python, and C/C++ on Hackerrank
- Received Rajya Puraskar (State Award) in Scout & Guide and qualified for State Badminton Guna, 2020

LEADERSHIP / EXTRACURRICULAR

- Coordinated and supervised for a smooth and fair competition during AdvITYa'23
- Directed club activities, orchestrated events, and enhanced member engagement through various technical and mechanical projects

LANGUAGES AND INTERESTS

Languages: English, Hindi

Interests: Exploring Geopolitics, Badminton, Podcast