RITIK RANJAN – DevSecOps Engineer

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I have experience as a DevSecOps Engineer with a focus on ensuring comprehensive security scanning and vulnerability detection. My experience includes security tools such as Blackduck and Polaris, configuring security stages on Gitlab pipelines, and conducting FST scans on Jfrog tool. As a DevSecOps engineer, I'm performing a security scan on the web page using the Invicti DAST tool to detect potential vulnerabilities. I am proficient in setting up scans on various operating systems including Windows, Linux and MacOS. I have a strong track record of proactively resolving incidents and errors related to security tools, minimizing downtime and disruptions. I am committed to ensuring the integrity and security of software applications. My expertise in DevSecOps and my ability to seamlessly integrate security scans into the development process make me a valuable asset to any organization.

TOOLS & TECHNOLOGIES

Languages: HTML, CSS, Python | **Container:** Docker, Kubernetes | **Version Control:** GitLab, Git, GitHub | **CICD:** Jenkins, Gitlab
Security Tools: SonarQube, Blackduck (SCA), Polaris (SAST), Invicti (DAST) | **Platform:** DevOps, AWS
Operating System: Windows, Linux | **MS:** Microsoft Excel

PROFESSIONAL EXPERIENCE

Full Time: DevSecOps Engineer | SecIQ Technologies LLP · 📅 July 2023 – Present
Client: - Wabtec Corporation

- Onboarding applications and projects on security tools for **SCA (Blackduck) and SAST (Coverity on Polaris)**, ensuring comprehensive security scanning and vulnerability detection.
- Configure the **security stage on Gitlab pipeline** and seamlessly integrated Blackduck and Polaris with Gitlab projects, **enabling automated security** scans and ensuring early detection of **vulnerabilities**.
- Conducted **FST (File System Testing) scans on Jfrog tool** to identify and address security vulnerabilities, ensuring the integrity and security of the software applications.
- Proactively **resolving incidents and errors** related to Blackduck and Polaris, **adhering to SLA terms** and **minimizing downtime** and disruptions to the development process.
- Performing a **security** scan on the web page using the Invicti **DAST** tool to detect potential **vulnerabilities**.

Key Automation Contributions:

- **Blackduck Version Limit Automation**
  Designed and implemented a Python-based automation that allows users to automatically delete older Blackduck versions when reaching the 15-version limit. Integrated an email alert system that notifies project owners when version counts reach 13, 14, or 15. This automation reduced incident tickets by 20%, enhancing user autonomy and reducing manual interventions.
- **Pipeline Error Solution Automation**
  Developed an automation that integrates the company's Knowledge Base with GitLab pipelines. When a pipeline fails during Blackduck or Polaris scans, the script analyzes error logs, fetches relevant solutions from the KB, and displays them directly in the pipeline logs. This innovation reduced incident tickets by 35–40%, empowering teams to self-resolve issues faster and improving operational efficiency

Intern: DevOps Engineer | Crimzen Red Studios · 📅 Oct 2022- Dec 2022

- Successfully **deployed Nakama Server on AWS**, utilizing tools such as AWS EC2, Git, Github, Docker, and Jenkins, to build an online multiplayer game for Crimzen Red Studios.
- **Implemented Cockroachdb on AWS** as the game database, leveraging AWS EC2, Git, Github, Docker, and Jenkins, to ensure efficient and reliable data storage and retrieval.
- **Collaborated with the development team** to ensure seamless integration of the Nakama Server and Cockroachdb into the game infrastructure.

PROJECTS

Deployed Django Todo List on Kubernetes · 📅 June 2023

- Built **Kubernetes Cluster** on AWS from scratch with Minikube.
- Setup and managed Docker container for Django application into Kubernetes Pods.
- Managed **Deployment, Replication, Auto-healing** and **Auto-scaling** for Kubernetes cluster.
- **Managed network** and service with **Host IP allocation**.

Achievement: Reduced Downtime on Production Environments.

Setup Local Gitlab Runner on Ubuntu · 📅 March 2024

- Successfully installed and configured a Local Gitlab runner on Ubuntu, enabling seamless integration with **Gitlab Pipeline**.
- Utilized the Local Gitlab Runner to **trigger Gitlab Pipeline** jobs, ensuring smooth and **automated execution** of tasks.
- Maintained clear and concise documentation of the installation and configuration process, facilitating future reference and **knowledge sharing**.

Achievement: A runner is a lightweight, highly-scalable agent that picks up a CI job through the coordinator API of **GitLab CI/CD**, runs the job, and sends the result back to the GitLab instance.

EDUCATION

B.Sc – Information Technology | Gossner College, Ranchi, Jharkhand | 2022

Intermediate | R.N.T.I College, Ranchi, Jharkhand | 2019

KEY STRENGTH

- **Problem Solver | Quick Learner | Hard Working | Team Player**

CERTIFICATIONS / AWARDS:

- **DevOps Certificate**