## Bentom Binoy

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Objective  
Security-focused software engineer with experience in **Application Security (SAST, SCA)**, **CI/CD automation**, and **secure software development practices**. Experienced in managing enterprise **SonarQube deployments**, integrating **SAST into DevSecOps**, and supporting security initiatives for cloud-native and embedded systems. Looking to leverage my skills in **AppSec automation, secure CI/CD pipelines, and security analytics** to drive **enterprise security** and **compliance initiatives**.

Highlights

* **Application Security (AppSec) Testing**: Hands-on experience in **SAST, SCA** using **SonarQube, Snyk, and Nexus IQ Server**. Automated security scanning and compliance enforcement.
* **CI/CD Pipeline Development & Automation**: Designed and optimized **Bamboo and Jenkins** pipelines for **security scanning**, **code coverage analysis**, and **automated reporting**. Integrated **SAST and SCA into DevSecOps** workflows.
* **Python & Bash Scripting**: Developed automation scripts for **security scanning, CI/CD pipeline optimizations, and SonarQube maintenance**. Experience in **parsing reports, log analysis, and API integrations**.
* **Enterprise Security & Compliance**: Led **SonarQube major release upgrades (8.9.3 → 10.6.0)**, PostgreSQL upgrades, backup strategies, **quality gate management**, and **security policy enforcement**.

## Project Experience

Infosys Limited | Trivandrum

**Calix Security Scan Engg: 02/2024 – present**

* Part of the Calix Security Scan Engg team from Infosys supporting SAST scans using SonarQube and point of contact for SonarQube for developers and DevOps team.
* As part of the S-SDLC initiative, automated and maintained CI/CD pipelines for weekly scans using Bamboo for SAST and FOSS Scan for both cloud as well as C/C++ projects.
* Managed weekly scans (SAST and FOSS) for all projects across Calix and worked with the team on analysis of issues identified.
* Maintained the on-prem SonarQube tool which includes server maintenance, system upgrade, sonar rules upgrade, managing project specific quality gate, along with regular backup and restore.
* Performed multi-stage major release upgrade for SonarQube from 8.9.3 to 10.6.0 including PostgreSQL upgrade from 10.3 to 14.3 without data loss.
* Supported SAST Shift Left initiatives to detect and resolve issues during implementation phase like
  + IDE integration for SonarLint plugin
  + Build scripts to run sonar scan as part of local build
  + Created documentation and instruction manuals for Shift left
  + Support teams in implementing Shift Left
* Worked with various teams on cross verification / fine-tuning of SAST bamboo plan configurations for faster scan runs.
* Worked on SAST scan dashboard by analysing the scan reports which involves cross mapping of sonar issues based on issue type and severity to identify issues for mandatory remediation within the release. Supporting automation initiative.
* Supported migration of sonar bamboo plans for entire cloud projects during initial Cloud Transformation initiative and enabling plans for GCP Initiative.
* Fine-tuned and categorized sonar plans for various projects and enabled automated scheduling of backup as well as scan run with notifications on failed scan runs.
* Supported inclusion of SCA / FOSS (Snyk) scans to the sonar plans for every product as well as worked on SAST / SCA support for PR commits and Shift Left.
* Supported POC initiatives for Code Coverage, Burp Suite and Sonatype Nexus IQ Server.
  + Enabled Code Coverage using Jacoco plugin for Cloud projects and working on establishing the same for c/c++ projects using gcov.
  + Performed Burp Suite Enterprise installation and configured SSO integration for developer shift left of DAST scans
  + Working on installation, configuration and integration of Sonatype Nexus IQ Server and Calix SCM /Build servers.
* Educated Interns about various Secure SDLC practises. Also gave meaningful insights about how to build a career in the IT sector. Helped them familiarize with Linux and How they can use bash scripts to automate repeated day to day task to improve efficiency.

**Calix Cloud: 04/2022 – 02/2024**

* Part of the Calix Cloud team supporting Service Manager component, cloud-native microservice enabling seamless provisioning and de-provisioning of services (Data, Voice, Video) on devices (ONT/RG).
* Worked closely with DevOps team to develop and maintain Bamboo CI/CD pipelines for build as well as sonar plans for various cloud projects.
* Performed SAST scan using SonarQube on the project and shared scan reports to project Owners
* Point of contact for all SonarQube related queries for the project.

**Internal Product - Secure Scan: 06/2021 – 03/2022**

* Successfully Completed Accelerate Jobs that are tasks created by managers so freshers can gain practical experience.
* Part of the Secure Scan team, a SaaS product developed by Infosys, for remote run of appsec scans in regular cadence and sharing reports.
* Worked on configuring SAST setup using SonarQube and Jenkins CI/CD pipeline for client’s maven and python projects.
* Worked on end-to-end support for SAST (SonarQube) scans on source code for ONOS northbound applications. Collaborated with multiple teams for client onboarding, configuring SAST pipeline, running scans and sharing scan reports.

**Training - Application Security Testing**

02/2021 – 06/2021

* Trained on Telecom domain and web technologies with specialization on Application Security Testing like SAST, SCA and DAST
* Worked on supporting various client internal projects as part of Accelerate Jobs program.
* Gained proficiency in Application Security Testing, Jenkins, Computer Networking, and Wireless technologies, earning recognition as a High Performer

Technical Skills

**Application Security Testing**

* SAST: SonarQube, SonarLint
* SCA: Snyk, Nexus IQ Server
* DAST: Burp Suite
* Secure SDLC, Compliance, and Security Analytics

**CI/CD & Automation**

* CI/CD Tools: Bamboo, Jenkins
* Automation & Scripting: Bash, Python
* Infrastructure & SCM: Git, Linux, PostgreSQL

**Programming & Development**

* Languages: Java, Python, Shell Scripting
* Cloud & Microservices: Docker, Kubernetes (basic).
* Code Coverage: JaCoCo, gcov

Certifications & Achievements  
• High Performer in Application Security Training  
• Successfully led SonarQube major upgrades & PostgreSQL migration  
• Implemented SAST Shift Left strategies across multiple teams  
• Mentored interns on Secure SDLC & Bash automation.

## Education

**Bachelor of Technology**

Rajagiri School of Engineering and Technology | Kochi

06/2016 – 09/2020

CGPA: 8.14

### Languages

* English (Fluent)
* Malayalam (Native speaker)
* Hindi (Intermediate)