

Debangsu Sarkar

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EXPERIENCE

ICICI Lombard General Insurance Company Ltd

Mumbai, MH

Aug 2023 – Dec 2024

Senior Developer - DevSecOps / Build & Release Engineer

- **Integrating Checkmarx** - Integrated Checkmarx in our Build processes as a SAST tool - Delivering ASLC reports to our developers with every new Build - decreased critical and high vulnerabilities by **90%**.
- **Integrating Artifactory** - Integrated Artifactory in our Build processes - Increasing the governance over Dependencies and Images used in our build process.
- **API Development and Logging System** - Developed and optimized RESTful APIs with JWT authentication, caching, and rate-limiting for scalability in .NET 6.0 - leveraging dependency injection and middleware.
- **Team Management** - Mentor and onboard new team members in C#, Docker, git, Kubernetes and Build Management processes, contributing to the successful integration of over eleven new developers across independent teams within four months.
- Developing and cultivating SBOM tracking culture, leveraging industry best practices and supply chain security standards - Integrated Syft and Dependency Track for Dependency Scanning.
- Integrate Gitleaks for Secrets Scanning of our Source Code - Hardcoded secrets were found out and remediated with Development Team.
- Collaborate with cross-functional teams to design and implement DevSecOps principles for the company's flagship product - both Back Office and Client Facing apps, enhancing developer experience.
- In Process - Integrating Image Signing processes - Currently using Kubernetes native for Deployment, integrating Argo CD for continuous deployment - UIPath/Selenium Functional Testing and Jmeter Performance Testing to be integrated with Terraform for dynamic allocation of resources for Continuous Automated Testing.
- Technologies used - **C#, Docker, Kubernetes, Jenkins, AWS, git, JFrog, Anchore Syft, SonarQube, Dependency Track, gitleaks, AWS Secrets Manager, Checkmarx**

Developer Intern - DevSecOps / Build & Release Engineer

Feb 2023 – Aug 2023

- **DevSecOps Architecture Development & Implementation** - Researched and Developed a DevSecOps Architecture for the organisation from ground up for end to end Software Supply Chain Management - Reduced turn-around-time for Security resolution by 50%
- **Modernisation & Containerisation** - Containerized legacy application components and modernised it through Docker and deployed through Kubernetes into AWS EKS cluster.
- **Source Code Migration** - Coordinated with Team Leads of legacy applications and developed new solutions for better developer experience in Github. Migrated from MultiRepo to MonoRepo architecture for improving Code Reusability, Collaboration, Version Controlling and reducing the costing of tools requiring Repo level licensing costs.
- **Script Development and Automation** - Developed Bash Scripts to maintain Gitleaks JSON and migrate code from AWS CodeCommit to Github automatically and housekeeping the Source Code to reduce the Source Code size from GBs to MBs. Reduced manual work by orders of magnitude.
- **CI/CD pipeline Development & Implementation** - Used Jenkins as our CI tool by developing Groovy syntax to integrate different security and infra tools with our project's artifact build.
- Technologies used - **C#, Docker, Kubernetes, Jenkins, AWS, git**

EDUCATION

Vellore Institute of Technology (VIT)

Vellore, TN

Bachelor of Technology in Computer Science Engineering, CGPA : 8.99

Jul. 2019 – Jun. 2023

M. C. Kejriwal Vidyapeeth

Howrah, WB

Indian School Certificate - PCM with Computer Science (12th Boards), 84.4%

2018

M. C. Kejriwal Vidyapeeth

Howrah, WB

Indian Certificate of Secondary Education - PCMB with Computer Science (10th Boards), 95.4%

2016

PROJECTS

Olympics-Visualisation

Apr. 2022

Exploratory Data Analytics and Visualisation

- Steps followed: Understanding the Data - Defining the Goal - Data Cleaning - Descriptive Statistics - Domain Knowledge - Visualising
- Visualisations included - TreeMap, LinePlot, StackedBarPlot, ScatterPlot, AnimatedBarPlot, DensityPlot, VariancePlot, WordCloud, MapPlot
- Technologies used - **R Markdown**, **Python(For Data Cleaning)**, **R Pub**.
- R Pub Published Dashboard

CERTIFICATIONS

Google Cloud Computing Foundations

Sept. 2022

- Learnt concepts and performed hands-on training related to GCloud shell - Setting up Network and HTTP Load Balancers - VPCs - Internal Load Balancers - Storage - Monitoring - Functions(Serverless) - PubSub - Vertex AI - Dataprep, Dataflow NLP API
- Verification

TECHNICAL SKILLS

Environments: Windows Server 2019, Linux Mint 20.3, Debian GNU 10, Alpine 3.16

Languages: JAVA, C#, TypeScript/JavaScript, C++, Groovy, PG-SQL, Linux Bash

Developer/DevOps Tools: Docker, Kubernetes, Jenkins, AWS, git, GitHub, JFrog, Anchore Syft, Dependency Track, gitleaks, AWS Secrets Manager, Checkmarx, Terraform, Jira, Selenium, JMeter, Postman