

# SWASTIK MUKHERJEE

## Senior Product Security Engineer

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## EXPERIENCE

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### Senior Product Security Engineer

#### IKEA

📅 Jan 2023 – Ongoing 📍 Bangalore, INDIA

- **SSDLC Automation & Integration** : Key Architect for developing "Argos" for creating organization wide Proactive Automated SSDLC Maturity Model with one click enablement through Platform Engineering, instant on-demand security assessment, Security Maturity Score, Actionable Insights and Automated Secure Template integration for developers.
- **Streamlining Product Security** : Key Architect for automated Security Control verification and status validation of the same, scoped across Organization wide 900+ Software Products and streamlined processes for Threat Modelling , SSDLC and Penetration Testing resulting in massive speed up for Product Security Life cycle Management.
- **Crafted Container Security Life-Cycle Management**: Designed Container Security Life-Cycle, streamlined process, developed solution and strategised to roll out this to product delivery stakeholders with ultimate shift-left approach.
- **Shifted From Routines to Strategy**: Played a pivotal role to Unify & centralize visibility for all security tools findings, distill & deduplicate vulnerabilities to a single actionable report and ensured seamless collaboration between development, security, and leadership team and shifted the focus more on strategy, not routines.
- **Architected Software Security Transformation** : Played a key role to research, audit, identify and procure GitHub Advanced Security for SAST, SCA & Secret Scanning and migrated 9000+ repositories from SonarQube, Blackduck & Polaris to finally produce vulnerability prioritization, insightful reports, dashboard, trends and inform relevant stakeholders with automated notification.
- **Architecting and Leading the Security Champion Program**: Initiated and implemented a strategic security program, collaborating with cross-functional teams to embed security controls. This effort reduced vulnerabilities, improved incident response, raised security awareness, increased stakeholder engagement and accelerated organizational Product Security Program with great speed.
- **Operationalize Cloud Security Initiatives** : Involved in accumulating cloud vulnerabilities, prioritize remediation, finding False-Positives, communicate to relevant stakeholders, visualize in internal dashboard, deduce trends and take informed decision for cloud vulnerability mitigation.
- **Cross-Cloud Compliance & Standardization** : Key Initiator for the development of Threat Modelled, Compliant and Secure Terraform Modules for GCP resources.

## EDUCATION

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M. Tech in Distributed & Mobile Computing

#### Jadavpur University

📅 June 2019 📍 8.67 CGPA

B. Tech in Computer Science

#### MAKAUT University

📅 June 2017 📍 8.26 CGPA

## SKILLS

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**Cloud Platform** : GCP, Azure & AWS

**CI/CD** : Github Actions, Atlassian Bamboo, Jenkins

**Container & Orchestration** : Docker, K8S, Trivy, Hadolint, Docker-bench, kube-bench

**IaC** : Terraform, TFSec, **CaC** : Ansible

**Scripting** : Python, Shell

**SCM** : Git, GitHub, BitBucket, Azure Repos

**SAST/SCA** : CodeQL, Dependabot, SonarQube, Blackduck, GHAS

**Secret Scanning** : Talisman, GHAS

**DAST** : Nuclei templates

**Threat Modelling** : OPlane

## ACHIEVEMENTS

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### Best DevSecOps Leader of the Year 2023

Received recognition at the 2nd Annual India DevOps Show by Quantic Business Media Pvt. Ltd.



### IKEA Data Hero Gold Medalist 2024

Achieved first place in the one-day Data Analysis inter IKEA Hackathon.

## Senior DevSecOps Engineer

### Honeywell Technology Solutions

📅 May 2022 – Mar 2023      📍 Bangalore, India

- Developed Templates to provision automated DevSecOps Pipelines with integrated security tool for Building .NET Xamarin Application, Java web application, Kernel build for Embedded Application.  
**Tools/Languages** : Bamboo CI/CD Pipeline, Azure VMs, SonarQube, Blackduck, Coverity, BitBucket, Python.
- Created Azure Workflow RunBooks to automate infrastructure orchestration scaled through 1500+ Azure Resources to increased cost efficiency.  
**Tools/Languages** : Powershell, Azure ARM Template.
- Configured Quality Gates to maintain Container Image Security Benchmark across 200+ DevOps Pipeline.  
**Tools/Languages** : Python, Twistlock
- Deployed Python script to send notification to Teams channel for 200+ Pipelines.  
**Tools/Languages** : Powershell, Azure ARM Template.
- Provisioned SAST Linters and Secret Scanning hooks to developers IDEs, enterprise Repo to achieve ultimate security shift left.  
**Tools/Languages** : SonarQube Linter, Talisman
- Developed Terraform templates to deploy Azure resources.  
**Tools/Languages** : Terraform
- Confidently managed, updated, maintained and orchestrated 300+ Bamboo CI/CD Windows & Linux Agents (Azure VMs) for smooth build, release & deploy of software artifacts.  
**Tools/Languages** : Terraform, Ansible, Azure
- Worked closely with Dev, QA, Cyber team to troubleshoot, collaborate and integrate solution to extend & optimize the pipeline capabilities.

## DevOps Engineer

### Tata Consultancy Services

📅 Jun 2019 – May 2022      📍 Kolkata, India

- Hands On experience in Linux System Administration (RHEL 6/7 | OEL 6/7 | Ubuntu).
- Developed Ansible Playbooks for Configuration Managements scoped across 3000+ Dev, QA and Prod Servers.
- Developed Automation scripts using Python and Shell Script to automate repetitive administration tasks.
- Ensured Ad-hoc Scaling, Resource Creation & High Availability Services in AWS Cloud & Oracle on-prem Cloud Platform.
- Automated, managed and maintained patching pipeline through Jenkins, Git and other Build Tools.
- Participated in Multi Team Collaboration for driving DR Drills.
- Participated in patching on-prem clusters Ensuring Delivery under minimal downtime.
- Performed Continuous Monitoring, Security Patch Apply, Network Management, Ad-hoc vulnerability Assessment and Mitigation, Alert management and incident response.
- Took active part for project migration from Oracle On Premise infrastructure to Azure & AWS Environment.
- Performed Creating, updating and Maintaining KEDB and Risk Registers.

## 🏆 Inner-Source Hackathon Runner-Up 2024

Achieved first runner-up place in inter IKEA inner source Hackathon.

## 🏆 Hub Ambassador

Selected as the Hub Ambassador for India to feature in IKEA's branding video, showcasing 'A Day in the Life of an IKEA Employee.'

## CERTIFICATIONS

- **AZ900** : Microsoft Certified: Azure Fundamentals.
- **AZ104** : Microsoft Certified: Azure Administrator Associate.
- **Scrum Master** : SAFe Certified Scrum Master (5.1)

## PUBLICATIONS

- Published Research paper on **Performance Enhancement in Big Data Handling** under IEEE.
- Published Research paper on **Optimal Cloud Load Balancing Algorithm** on Springer ACCS.
- Published Research paper on **Load Balancing and Auto-scaling in Cloud Elastic Environment** on IOS Press.
- Published Book Chapter on **An approach towards survey and analysis of cloud robotics** in IGI Global.
- Published Book Chapter on **Examining of QoS in Cloud Computing Technologies and IoT Services** in IGI Global.

## LANGUAGES

English



Bengali



Hindi

