

# Ayanita Basu

📞: +91- 9874381178 ✉: [ayanitabasu@ymail.com](mailto:ayanitabasu@ymail.com)

#Sector 5, Salt Lake Road, Kolkata-700059

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## Objective:

Cloud Security Specialist with over 10 years of experience in securing cloud infrastructures, including AWS environments and containerized applications. Proven expertise in designing and implementing robust security measures for AWS, Kubernetes, and containerized environments. Adept at conducting risk assessments, managing security incidents, and leveraging security tools to protect sensitive data and ensure compliance.

## Professional Summary:

### *Tata Consultancy Services*

#### *AWS Security Engineer, CitiBank NA- 2017-current*

- ➡ Having over 10 years of IT experience in cloud and cloud security infrastructure
- ➡ Involved in architecture reviews and providing the solution for the security loophole
- ➡ Designed and implemented AWS security architectures using AWS IAM, KMS, and VPC security features to ensure data protection and regulatory compliance.
- ➡ Managed AWS CloudTrail and AWS Config to monitor, assess, and respond to security incidents and policy violations.
- ➡ Deployed AWS Security Hub and Amazon GuardDuty for centralized security monitoring and threat detection.  
Conducted regular security audits and vulnerability assessments, resulting in a 30% reduction in potential security threats.
- ➡ Automated security processes using AWS Lambda and CloudFormation, streamlining incident response and compliance reporting
- ➡ Implemented security policies and procedures for AWS environments, including IAM roles, security groups, and encryption protocols.
- ➡ Performed risk assessments and security reviews, providing actionable insights that improved overall security posture.
- ➡ Utilized AWS Inspector for automated security assessments, identifying and mitigating potential vulnerabilities.
- ➡ Collaborated with development teams to integrate security best practices into CI/CD pipelines and deployment processes.
- ➡ Maintained documentation and conducted training sessions on AWS security best practices for internal team

### *Tata Consultancy Services*

#### *Cloud Security Analyst, CitiBank NA-2013-2017*

#### Roles and Responsibilities:

- ➡ Designed and implemented AWS security architectures using AWS IAM, KMS, and VPC security features to ensure data protection and regulatory compliance.
- ➡ Secured containerized applications by deploying and managing Docker and Kubernetes security best practices, including RBAC, network policies, and pod security policies.
- ➡ Utilized Twistlock (Prisma Cloud) for comprehensive container security, including vulnerability management, compliance monitoring, and runtime protection.
- ➡ Employed SonarQube for static code analysis, integrating it into CI/CD pipelines to ensure code quality and security before deployment.
- ➡ Conducted regular security audits and vulnerability assessments of containerized applications, resulting in a 30% reduction in potential security threats.

## **Automation Specialist**

### *Tata Consultancy Services*

- Developed and implemented cost-effective strategies for monitoring existing applications using Python and Bash Scripting

- Automating monitoring and validation process during project releases, thus optimizing the cost. Ensured proper alerting for systems breaching thresholds.
- Implemented one-click validation for the entire system services, reducing man-hour to 50%
- Maintained, debugged and optimized automation programs.
- Representing data related to infrastructure services to end users , thus automating the service monitoring system.

## **Technical Skills**

- AWS Security Services: *AWS IAM, AWS KMS, AWS Shield, AWS WAF, AWS CloudTrail, AWS Config, Amazon GuardDuty, AWS Security Hub*
- Container Security: *Docker, Kubernetes, Container Security Best Practices*
- Security Tools: *AWS Inspector, AWS Macie, Splunk, Nessus, Aqua Security, Twistlock*
- Compliance & Frameworks: *NIST, CIS, GDPR, HIPAA, PCI-DSS*
- Networking: *VPC, Security Groups, NACLs, VPN, Direct Connect*
- Scripting & Automation: *Python, Bash, AWS Lambda*

## **Education:-**

Bachelor of Technology: InformationTechnology  
*West Bengal University of Technology*