

# Archana Sonawane

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## EDUCATION

**Master of Digital Transformation (Data Science), University of Ottawa, Canada** Sept 2022-April 2024

✓ GPA: 3.8

**Bachelor of Engineering (Information Technology), University of Mumbai, India** June 2011-May 2015

✓ Percentage: 75% (Distinction grades in Final Year)

## SKILLS

- ✓ **Programming Languages:** Python, Java, Shell, SQL, R, HTML, CSS
- ✓ **Skills:** Docker, Jenkins, Terraform, Kubernetes, Azure Cloud (AKS, Azure Data Factory, KeyVault, CosmosDB), Amazon Web Services (EC2, S3, Lambda, IAM, Route53, ECR, ECS, EKS), Datadog, Grafana, Prometheus
- ✓ **Knowledge:** MongoDB, Hive, HBase, Cassandra, Microservices, REST, Git, Ansible, Agile, Automation Testing
- ✓ **Certifications:** Big Data Analytics (Centre for Development of Advanced Computing)

## RELEVANT WORK EXPERIENCE

**DevOps & SRE Intern, Nokia, Ottawa, Canada** Sept 2023-Dec 2023

- ✓ Designed and managed **CI/CD** pipeline for a **SAAS** application with **GitOps** to minimize interruptions in test builds.
- ✓ Enhanced the CI/CD pipeline with **Azure Container Registry**, **Elastic Container Services**, **flux**, **helm** charts enabling the deployment of new features as they become available and reducing time-to-market by 70%.
- ✓ Utilized **Kafka** to stream **SLIs & SLOs** to Prometheus, enhancing system observability. Created monitoring dashboards using **Grafana** and integrating with **Kuberhelathy** to ensure and optimize system stability.
- ✓ Implemented cluster services with **Docker** to manage deployments by building a self-hosting **Kubernetes** cluster using **Terraform** and deploying application containers. Ensured on-time delivery & managed project backlogs with **JIRA**.

**Systems and Cloud Engineer Intern, Solacom Technologies, Ottawa, Canada** May2023-Aug2023

- ✓ Proactively monitored Dell PowerEdge servers using **iDRAC**, resulting in a 20% reduction in system downtime through early issue detection and resolution following **Agile** collaboration.
- ✓ Executed firmware updates on Cisco and D-Link switches, routers, and firewalls, leading to a **15%** improvement in **network security** posture and reducing the risk of potential cyber threats.
- ✓ Enhanced system security by scripting **PowerShell** automation for Windows hardening, resulting in a 30% reduction in manual configuration time and a more robust defense against security vulnerabilities.
- ✓ Managed **VoIP** infrastructure and network services such as Web servers, DHCP, DNS, FTP on both **Windows** and **Linux**-based environments.

**Assistant Manager (Systems), State Bank of India, Mumbai, India** Jul 2017-Sept 2022

- ✓ Spearheaded the implementation of site reliability measures using **Dynatrace**, guaranteeing 24x365 system availability. Successfully integrated **ITSM**, **TrueSight** solutions for efficient IT infrastructure operations.
- ✓ Managed IT infrastructure of over 10 applications, executing software and hardware upgrades, patch implementations, and ensuring IT compliance, resulting in enhanced system efficiency by addressing **OWASP** vulnerabilities.
- ✓ Integrated 2000+ logs of **AIX**, **RHEL**, **Solaris** and **Windows** instances with **SIEM** solution of **Splunk** to adhere to **SOC** standards and enabling monitoring for security incidents & **RCAs** for incidents using **ServiceNow**.
- ✓ Transitioned traditional SDLC to CI/CD and **DevSecOps** methodologies, leveraging tools such as SVN, **Jenkins**, **Ansible**, **HP Fortify**, and **SonarQube**, resulting in a 40% reduction in Mean Time to Deployment (MTTD).

**Assistant Software Engineer, Tata Consultancy Services, Mumbai, India** Jan 2016-Jul 2017

- ✓ Collaborated to develop a native and cross-platform application for underwriting services using **Java**, Spring Boot framework, **SQL**, WSDL, SOAP.

## PROJECTS

### Migration on AWS using lift & shift strategy

- ✓ Migrated an application service to AWS, applying the Lift & Shift strategy for minimal downtime and efficient transition.
- ✓ Utilized AWS services such as EC2, ELB, Auto Scaling, S3, EFS, Route 53, and Amazon Certificate Manager to optimize infrastructure in an Infrastructure as a Service (IaaS) model.

### AWS CI/CD Implementation with Managed Services

- ✓ Created a CI CD pipeline on AWS using managed services. Integrated CodeCommit, CodeBuild, CodeDeploy, and CodePipeline to automate the end-to-end process, ensuring efficient software delivery.

### Setting up multi-tier web application

- ✓ Implemented Infrastructure as Code (IaC) to set up an automated and repeatable deployment for a multitier Java application. Orchestrated load balancing, database caching, and streamlined service setup using Bash scripts.
- ✓ Incorporated technologies such as Memcached for database caching, NGINX for load balancing, RabbitMQ for messaging, Git bash for version control, Apache Tomcat for application hosting, and Vagrant for service orchestration.