Devashish Sanjay Ubale

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EDUCATION

Carnegie Mellon University Pittsburgh, PA
Master of Information Technology - Software and Networked Systems (Computer Science) (3.62/4.0) **Dec 2023**
Coursework: Intro to Computer Systems; Software Architecture; Principles of Software Construction**;** Java for Application Programmers; Distributed Systems; DevOps and Continuous Integration; Applied Machine Learning; Info Security

VIT, Savitribai Phule Pune University Pune, India
Bachelor of Technology, Information Technology (3.84/4.0) **May 2019**

PROFESSIONAL EXPERIENCE

CASOS - Carnegie Mellon University Pittsburgh, PA
Research & Development Intern | *jQuery, JavaScript, node JS, XML, JSON, github, GIT actions* **Jun 2023 - Aug 2023**

- Spearheaded the development of a user-friendly responsive interface in cyber attack simulation frameworks, driving an 80% increase in successful attack simulations
- Created a robust solution for storing and retrieving MITRE ATT&CK-based cyber-attack scenarios, streamlining simulations and optimizing performance

TIBCO Software Inc Pune, India
Software Engineer (A.M.T.S) | *Java, J2EE, Spring MVC, C, Spring boot, REST APIs, svn, Kafka, C#* **Jun 2019 – Jul 2022**

- Implemented features using Object Oriented Programming for the Log Management Intelligence platform to enhance data analysis and operational insights by collecting and correlating user activity and event data
- Remedied and optimized a malfunctioning data exchange system by implementing an efficient Kafka-based asynchronous messaging solution, ensuring seamless communication between data nodes and query nodes
- Led the sharding implementation to optimize data distribution and improve system scalability
- Crafted a pioneering POC that replaced the Active MQ C# approach with the JNI/JNA approach, resulting in an impressive 150% performance boost with low latency
- Initiated infrastructure development for the distributed log aggregation microservice at LogLogic TIBCO, proactively resolving backup issues and enhancing data processing reliability by 20%
- Applied consistency principles in designing and implementing features for the system, elevating fault tolerance

NVIDIA Pune, India
Software Development, Intern | *C++, Python, NVAPI SDK, winDbg, perforce* **Jun 2018 – Dec 2018**

- Developed an internal diagnostic tool that checks features of GPU drivers and improved efficiency by 33%
- Crafted robust and comprehensive unit test cases for the GPU driver, fortifying its performance and reliability while ensuring top-notch quality assurance with Test-Driven Development (TDD)
- Coordinated with multiple teams, driving efficient requirement identification and feature enhancements, resulting in a 40% increase in product functionality and customer satisfaction

PROJECTS

CICD Pipeline for Pet Clinic App | *Jenkins, MVN, Docker, Ansible* **Spring 2023**

- Implemented an end-to-end CI/CD pipeline for the Pet Clinic App, leveraging Infrastructure-as-Code (IAC) principles, Deployment-as-a-Service solutions
- Achieved a remarkable 50% reduction in deployment time compared to the manual deployment process, optimizing the entire development life cycle

Istio Microservices Deployment | *Istio, Kubernetes, Docker, argoCD, YAML* **Spring 2023**

- Orchestrated dynamic routing for multiple microservice versions within a Kubernetes environment using Istio
- Configured and managed the deployment of a weather app, enhancing service reliability and flexibility

Scalable Web Service Optimization | *JAVA, RMI, AFS, Linux* **Spring 2023**

- Scaled a simulated multi-tier(n-tier) web storefront within a cloud environment and successfully identified and mitigated bottlenecks, optimizing server allocation for enhanced system responsiveness and cost efficiency
- Implemented dynamic auto-scaling to start and stop VMs based on client arrival rates, resulting in a 40% throughput improvement during peak loads and optimized cost efficiency in response to varying workloads

TECHNICAL SKILLS

Programming:	Java; Python; C; C++; C#; HTML; CSS; SQL; Debugging skills; bash, shell; JavaScript
Frameworks and tools:	Docker; Jenkin; Maven; SVN; GIT; GitHub; graphQL, JIRA; Kubernetes; Junit; postman; gRPC
Database:	MySQL; MongoDB (NoSQL); Oracle; PostgreSQL
Cloud Technologies:	AWS lambda; AWS EC2; AWS S3; GCP OAuth 2.0; AWS EKS