

REBECCA BIJU

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PROFESSIONAL SUMMARY

Experienced Software & DevOps Engineer skilled in cloud infrastructure, automation & CI/CD, collaborating with teams of 5+ members. Proficient in Public cloud, Terraform, Kubernetes, Docker & Helm to deploy applications, enhancing operational efficiency

EDUCATION

Northeastern University, Boston, MA | **GPA: 4.0**

Dec 2024

Master of Science in Information Systems

Focus areas: Advanced Cloud Computing, Database Management, Web Design & User Experience, Software Quality Control

Husky Systems Code: Organizing Committee Member, Graduate Women in Engineering Student Organization

K. J. Somaiya College of Engineering, Mumbai, India | **GPA: 3.85**

Sep 2020

Bachelor of Technology in Computer Engineering

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) (2024): <https://tinyurl.com/ckabeccaboo>

PROFESSIONAL EXPERIENCE

Software Engineer Co-op - CI/CD Team | Charles River Development (State Street) | Boston, USA

Jan 2024 - Jun 2024

- Engineered an automation script that integrates Mend API for automatically assigning security policies to newly created products, reducing setup time per product by more than 90%
- Restructured Mend environment by introducing 2 organisations, with Python scripts automating JIRA ID extraction & product assignment based on fix versions, generating security Jiras exclusively for Production projects, resulting in a 60% efficiency boost
- Implemented semantic release for 10 repositories using Docker image in CI/CD pipelines, saving 30 hours of manual release monthly
- Established a pipeline to upload Python scripts to JFrog Artifactory, streamlining CI/CD steps and enhancing code reusability by 70%
- Orchestrated setup of PostgreSQL and Temporal, ensuring robust database support for applications using ArgoCD and Helm Charts

Associate Software Engineer | Oracle Financial Services Software Limited | Mumbai, India

Oct 2020 - Aug 2022

- Initiated & led a server setup & data exchange project with automated configuration, cutting the timeline from 2 days to 10 minutes
- Collaborated with cross-functional teams across 3 global branches of a large corporate bank, driving agile customization projects with a focus on effective verbal communication and a solution-driven approach
- Revamped configuration management system architecture, integrating a robust System-lock security module to streamline admin tasks by 95%, mitigating risks & enhancing server administration efficiency for on-site clients
- Architected a centralized authentication & key management system utilising Hashicorp Vault, reducing operational overhead by 90%
- Automated codebase migration to support RESTful API, resulting in a 65% increase in process efficiency

PROJECTS

K8s Infrastructure (GKE, Jenkins, Terraform, Python, Node.js, Nginx)

Dec 2023

- Led AWS, GKE, & Kubernetes infrastructure projects with custom AMIs for Jenkins CI/CD, automating AWS deployments
- Developed Kubernetes operators in Golang for managing cron jobs, cutting manual intervention by 65% in health checks & data publication to Kafka
- Created a Flask-based web application for CRUD operations on health check data and set up Helm chart repositories, speeding up GKE deployments by 2x
- Integrated cluster Istio service mesh & Kiali dashboard for enhancing comprehensive mesh monitoring by 40%
- Configured Applications with Jenkins & bastion host through SSH tunneling on a private GKE cluster for better security

WebApp (Node.js, Express, PostgreSQL, AWS, Terraform, Jest)

Apr 2023

- Designed E-Commerce application with Base64 authentication for security, handling 1000s of concurrent requests effortlessly
- Deployed RESTful API on AWS with Terraform involving S3, RDS & EC2 instances with encryption by KMS, using a custom AMI built with Packer to optimize server setup time, resulting in a 50% reduction in deployment time
- Modeled custom GitHub Actions to setup CI/CD pipelines for streamlining API delivery & used Jest for Unit Testing
- Implemented Amazon CloudWatch monitoring with automated alerts, reducing incident response time of application by 40%

TECHNICAL SKILLS

Programming Languages : Java, Python, Go, HCL, SQL, C++, Groovy, Kotlin DSL, Linux (Bash) scripting

Web Technologies : HTML, JavaScript, ES6, React, Redux, Node.js, CSS, Bootstrap, jQuery, Express, Socket.io, MaterialUI

Databases & Tools : Oracle, PL/SQL, MongoDB, JSON, PostgreSQL, Git, Jest, IntelliJ, Eclipse, Figma, Bash, Postman, JMeter

Cloud & DevOps : Terraform, AWS (VPC, EC2, RDS, S3, CloudWatch, IAM, KMS, Autoscaling, Load Balancer), Jenkins, Packer, Nginx, GitHub Actions, Kubernetes, Docker, Helm Charts, Apache Kafka, TeamCity, ArgoCD