Rayan Dasoriya

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EDUCATION

North Carolina State University, Raleigh, NC, USA   Dec 2019
Master of Computer Science, **CGPA: 4/4**

NMIMS University, Mumbai, MH, India   May 2018
Bachelor of Technology, Computer Engineering, **CGPA: 3.66/4** *(Merit holder)*

PROFESSIONAL EXPERIENCE

Software Developer, IBM, Research Triangle Park, US   Feb 2020 – Present
- Managing the transformation of a legacy data streaming system, handling millions of requests per day, to an event-driven cloud-based system
- Re-designing the infrastructure to facilitate a real-time, seamless flow of IBM sales analytics data through Kafka and Spark
- Implementing a CI/CD pipeline to automate the build, test, deploy and monitor of data streaming application
- Delivered automation scripts using **Ansible** saving 14 hours of manual work weekly
- Created Go templates for values in **helmfile** and integrated helm secrets to handle the multi-cluster deployment
- Developed a **serverless** event-driven error handling pipeline in Node.js using Redis cache with Slack integration
- Managed the infrastructure and build using **Terraform** and Travis to deploy various microservices into Kubernetes cluster
- Primary engineer for integrating a service to securely store credentials in Vault and create a timely backup in 1Password

Software Developer Intern, IBM, Research Triangle Park, US   May 2019 – Dec 2019
- Created a customized Watson Score calculator to prioritize support tickets
- Managed transformation of a monolithic architecture into microservices for Kubernetes Deployment on OpenShift 3
- Designed a real-time monitoring dashboard and alert notification system for IBM Cloud Kubernetes Service
- Replaced **600 hours** of manual testing by an automated testing module, thus completing the CI/CD pipeline, using NodeJS

Webstack Trainee, iPixels Agency Pvt. Ltd., Mumbai, India   May 2017 - Jul 2017
- Developed portal for clients in a team of 4 as a full-stack web development intern using Laravel and CodeIgniter
- Maintained live servers, server-side scripts for backend data processing, and front-end web development

Software Engineer Intern, Oraculous Services, Rajkot, India   Aug 2016 - May 2017
- Programmed an Android app (iRiss) for free calls using credits; 1,000 downloads in a year with 4+ rating (discontinued)
- Implemented an automated deployment pipeline to assure quality code, testing, and security

SKILLS AND TECHNOLOGIES

Languages	Python, Go, Shell Script, JavaScript, TypeScript
Web Technologies	Angular, React, Flask, Node.js, MySQL, MongoDB, Redis, Cassandra, GraphQL, REST
Software/Tools	Kubernetes, OpenShift, Travis, Helm, Istio, Docker, Ansible, Jenkins, Apache Kafka, Elasticsearch
Cloud Services	IBM Cloud, Amazon Web Service, Microsoft Azure, DigitalOcean

PROJECTS

- **DevOps Project** *(Automated Pipeline):* Created a pipeline to automate the configuration, build, test and deployment of two applications with Kubernetes for Docker container orchestration using Ansible and AWS
- **Configuration Management** *(DevOps)***:** Automated the deployment and configuration of a group chat application, Mattermost, using Ansible
- **Cloud Data Storage** *(Data Management over Cloud)*: Researched and implemented an algorithm for efficient storage and faster access to static websites over a public cloud platform. Also, **published a research paper** at an IEEE conference
- **React Project** *(Git Beauty):* Designed a full-stack application using React and Next.js to deliver a modified version of a user's GitHub profile
- **Large-Scale Web Development** *(Examination System)*: Developed a full-stack examination portal **with load balancers** where teachers can register students and create an exam. Simultaneously, students can access the portal to take an exam

HONORS AND AWARDS

- Published **7 research papers** at different IEEE conferences and journals in Software Engineering and Cloud Computing
- Two times **Hackathon** and one-time **Codathon** winner out of 100+ teams
- Contributed to IBM Carbon Library, Expertiza and Kubeview open source projects