

Rayan Dasoriya

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EDUCATION

North Carolina State University, Raleigh, NC, USA

Dec 2019

Master of Computer Science, **CGPA: 4/4**

Coursework: Automated Software Engineering, DevOps, Object-Oriented Design and Development, Design and Analysis of Algorithms, Privacy

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

- Designing and implementing high business value features and services for IBM Digital Marketplace team using MEAN stack
- Managing the build using Travis to deploy various microservices into Kubernetes cluster
- Primary engineer for integrating a service to securely store API keys and certificates in HashiCorp Vault and create a timely backup of these secrets into 1Password
- Leveraging the infrastructure for the team using Terraform
- Designing, documenting, improving and testing code by writing unit test in Jest and UI test in Cypress
- Constantly tracked the application performance using Sysdig, New Relic and Logentries as a Scrum Master
- Collaborating with other team members to write the best code and deliver the ideas proposed by the Offering Manager

Software Developer Intern, IBM, Research Triangle Park, US

May 2019 – Dec 2019

- Created a customized Watson Score calculator on Cognitive Support Platform for case prioritization by support agents
- Managed transformation of a monolithic architecture into microservices for Kubernetes Deployment on OpenShift
- 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 JavaScript, Python, Go, C++, Shell Script, Java

Web Technologies Angular, React, Flask, Node.js, MySQL, MongoDB, Cassandra, Redis, GraphQL, REST

Software/Tools Kubernetes, OpenShift, Travis, Istio, Docker, Git, Ansible, Jenkins, Apache Kafka

Cloud Services IBM Cloud, Amazon Web Service, Microsoft Azure, DigitalOcean

PROJECTS

- **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
- **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
- **JavaScript Project** (*ColorB App*): Developed a Google Chrome extension to assist color blind people to view the websites
- **Configuration Management** (*DevOps*): Automated the configuration of a group chat application, Mattermost, using Ansible along with the SMTP email notifications
- **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
- **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

- **Software Engineering** (*MQ Broker Analysis*): Implemented, tested and compared MQ broker software (Kafka, RabbitMQ and ActiveMQ) on various parameters using JMeter, Gatling, and SonarLint for appropriate industrial application
- **Open Source Contribution** (*Expertiza*): Contributed to a peer-review project management system by sorting complicated views, improving the UI and working of 'review' model, and designed test cases using Ruby on Rails. **Increased code coverage by 0.5%**
- **Artificial Intelligence** (*Bartering System*): Created a ML model for communication between two bots for purchasing a product
- **Data Analytics** (*Course Selector*): Created a ML model, integrated with Flask and AngularJS, to recommend the graduate courses to undergrad students by getting current subjects and interests (For NC State CSC Dept. students only)

HONORS AND AWARDS

- Published **7 research papers** at different IEEE conferences and journals in Software Engineering, AI and Cloud Computing
- Two times **Hackathon** and one-time **Codathon** winner out of 100+ teams; won cash prizes worth \$100
- Red Hat certified **Automation Delivery Specialist (Ansible)** and **Container Platform Administration Specialist (OpenShift)**
- Awarded **Student Ambassador 2018** for all-around excellence at the NMIMS University, Mumbai, India
- **Technical Head** of Students' Council's Colloquium and organized a National Level B-Plan Competition Bizzneeti 2.0