SACHIN R

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EDUCATION

North Carolina State University   **Aug 2023 – May 2025**
Master of Computer Science   *NC, United States*

R V College of Engineering   **Aug 2016 – Jul 2020**
Bachelor of Engineering in Computer Science - 8.54/10   *Bangalore, India*

TECHNICAL SKILLS

Java | **Spring boot** | Ruby on rails | Python | Javascript | **Angular** | MySQL | DynamoDB(NoSQL) | Elasticsearch | Redis

AWS | **Docker** | **Kubernetes** | **Terraform** | CircleCI CICD | Microservices | Distributed Systems | Git | Junit | Sonarqube

EXPERIENCE

Machado Labs at NCSU   **Aug 2023-present**
Research Programmer   *Raleigh, North Carolina*
- Working as a **full stack developer** to build RABAapp - an industry-leading biosecurity and contact tracing application.
- **Migrating the application from private infrastructure to AWS Cloud**.

Cisco   **Aug 2020 – Aug 2023**
Software Engineer   *Bangalore, India*
- Designed, developed, and maintained 3 Spring Boot-based **microservices** for the Cisco partner-facing web application
- Developed and maintained 15 **AWS Serverless lambdas** written in Java and Golang which was integrated with Cloudwatch events and API gateways .
- Built 35 **REST APIs** for the Cisco partner facing web application.
- Migrated to **Serverless Architecture to reduce infrastructure costs** by **25%**.
- Spawned up **AWS infrastructure** for the application using terraform and terraform cloud.
- Improved code maintainability by the usage of common code. Created a common code module for use within our team.
- Implemented CI/CD pipelines, resulting in a remarkable **70%** reduction in release time. Utilized Circle CI orbs to streamline CICD configuration across teams.

Nuage Networks from Nokia   **Jan 2020 – Jun 2020**
Software Development Intern   *Bangalore, India*
- Built a tool to back up system images with configurable parameters like frequency of backup and image types.
- Created a Grafana dashboard to monitor CPU and memory usage of testbed instances.

PROJECTS

Analytics tool for MHPS | *Qt C++*   **May 2020 – Aug 2020**
- Developed a cross platform desktop application using Qt framework that provides analytical and processing capabilities for turbine data.
- Created and verified artifacts of the application for multiple operating systems.

File transfer system in an electronic jacquard machine | *Flask, Linux*   **Apr 2017 – Oct 2017**
- Worked under the guidance of Dr. K Badari Nath and contributed to his project titled *Software modules for Indian electronic hand looms*.
- Developed a tool to transfer textile design patterns from a UI interface to an automated hand loom system.

Household water resource monitoring | *Python, IOT*   **Apr 2019 – Nov 2019**
- Created a system to monitor and report various parameters pertinent to household water usage and quality and detect possible leakages in the household water distribution system.
- Incorporated ThingSpeak IOT platform to analyze and report water quality parameters.

AWARDS AND CERTIFICATIONS

- AWS Certified Developer Associate.
- Second runner up award in Cisco hackathon event for work on the project titled *Utilizing pod topology spread constraints in Kubernetes.*
- Official recognition from my team in Cisco for the work on *Migrating to Serverless lambda service to reduce infrastructure costs.*