

SACHIN R

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EDUCATION

North Carolina State University

Master of Computer Science - 4/4

Aug 2023 – May 2025

NC, United States

R V College of Engineering

Bachelor of Engineering in Computer Science - 8.54/10

Aug 2016 – Jul 2020

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

Research Programmer

Aug 2023-present

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

Software Engineer

Aug 2020 – Aug 2023

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

Software Development Intern

Jan 2020 – Jun 2020

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

Open Source contribution to Expertiza | Ruby on Rails

Aug 2023 – Dec 2023

- Contributed to NCSU maintained open source project - expertiza.
- Refactored and re-implemented user management code to incorporate new features-PR

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.

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.*