

## Sachin R Doddaguni

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### SUMMARY

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Software Engineer with 3+ years of experience in Software Development, Full Stack Development, Platform Engineering

### WORK EXPERIENCE

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**North Carolina State University** | *Graduate Research Assistant* | *Platform Engineer* Aug 2023 - Jun 2024

- Led the development and deployment of infrastructure for RABapp, a biosecurity and contact tracing application utilized by 17 US State Health Officials : **AWS, Terraform, Docker**.
- Explored and implemented cost-saving measures, reducing infrastructure costs by **32%**.
- Enhanced **security and monitoring** by ensuring all AWS activities were logged, implementing structured logs for API code, and setting up secure database connections via a bastion host.
- Designed and implemented UI functionalities using **Angular** framework.
- Managed recruitment by redesigning coding challenges, screening applicants, conducting interviews and onboarding new hires.

**Cisco** | *Software Engineer 2* Aug 2020 - Aug 2023

- Designed, developed, and maintained three Spring Boot-based **microservices** that served **25%** of the overall application traffic.
- Integrated microservice with Okta for authentication and Role-Based Access Control (**RBAC**). Accelerated authorization logic execution by **41%** with a sidecar architecture, fetching **Okta** policies from S3.
- Successfully migrated to a serverless architecture, resulting in a **25%** reduction in **infrastructure costs**.
- Created a Java common module starter for authorization, reducing duplicated authorization logic across microservices by **100%**: **Jfrog, Java**.
- Implemented comprehensive CI/CD pipelines across diverse projects including microservices, UI code, and database versioning, resulting in a remarkable **60%** reduction in release time: **CircleCI, Bash**.
- Demonstrated **leadership** skills by mentoring two interns, providing guidance and direction throughout their assigned projects.
- Diagnosed and fixed over **46** bugs, vulnerabilities in Cisco PX Cloud application. **Sonarqube, Java, Python**.

**Nuage Networks, Nokia** | *Devops Intern* Jan 2020 - Jun 2020

- Utilized **Grafana** for real-time monitoring of server and application-level statistics, identifying and mitigating performance bottlenecks.
- Integrated Cypress framework for integration testing and incorporated it as automated checks in the CI/CD pipeline, reducing manual testing time by 60%.

### SKILLS

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**Languages:** Java, Python, Golang, Typescript, Angular

**Frameworks & DBs:** **Spring-Boot**, Flask, **Angular**, Redux, MySQL, REST

**Tools & Technologies:** Linux, Terraform, Docker, **Kubernetes**, Ansible, Circle CI, Keycloak, **Okta**

**Certifications:** AWS - Certified Developer Associate

### EDUCATION

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**North Carolina State University** | *Master of Computer Science* Aug 2023 - Dec 2024

Operating Systems, Computer Networks, Neural Networks, Automated Learning and Data Analysis

GPA: 4.0/4.0

**R V College of Engineering** | *Bachelor of Technology in Computer Science* Jul 2016 - Jun 2020

Computer Networks, Database Management Systems, Data Mining, Operating Systems, Algorithms

GPA: 8.54/10.0

### PROJECTS

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**Open Source contribution to Expertiza** | *Ruby on Rails, Rspec* | *Academic Project* Aug 2023 - Dec 2023

- Contributed to the NCSU-maintained open-source project Expertiza.
- Refactored and re-implemented user management controller and its subclasses with comprehensive unit and functional Rspec tests.

**Analytics tool for MHPS** | *Qt C++* | *Freelance Project* Sep 2022 - Dec 2022

- 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 using Qt and **Make**.

**On-Device transfer learning in mobile devices** | *C++* | *make* | *Samsung Prism* Aug 2021 - Mar 2022

- Developed a POC for On-device transfer learning as part of Samsung prism program.
- Our team was one of the few selected to demo the POC at Samsung research center, Bangalore.