

## Kiranmai Chigarakula

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### EDUCATION

#### Texas A&M University - Kingsville

JAN 2023 – MAY 2024

Master of Science in Computer Science

#### Sreenivasa Institute of Technology and Management Studies, AP, India

JUN 2016 – SEP 2020

Bachelor of Technology in Computer Science and Engineering

### SKILLS

**Programming Languages:** Java, C

**Web Technologies:** TypeScript, HTML, CSS, JavaScript

**Frameworks:** Spring, Spring Boot, Spring JPA, Spring Security, Hibernate, Maven, JUnit, Mockito, Angular.

**Databases:** SQL Server, H2, MySQL, MongoDB.

**Cloud Technologies:** AWS Core Services – S3, EC2, RDS, Lambda, CloudWatch, IAM, Elastic Beanstalk.

**Developer Tools:** GIT, Postman, Jenkins, SonarQube, JIRA, Swagger API, Log4j, GitHub, VS code, Eclipse.

### WORK EXPERIENCE

#### Jr Software Engineer – Cognizant Technology Solutions, India

DEC 2020 – DEC 2022

- Led multiple SDLC cycles in an agile environment, ensuring timely delivery of high-quality tracking systems.
- Developed and troubleshoot authentication services, using Java and Spring boot, enhancing security protocols.
- Designed and implemented secure, public-facing user interfaces using Angular and JavaScript.
- Maintained robust database structures, resolving critical production issues while adhering to microservice architecture and REST API principles.
- Created intuitive interfaces for entity relationship models, ensuring precise data accuracy and integrity.
- Elevated code quality through rigorous unit testing, increasing coverage, and mitigating sonar issues to below 5%.
- Automated software build, test, and deployment processes using CI/CD tools like Maven, Jenkins, and Sonar.
- Articulated business logic flows and technical intricacies to uphold clarity and maintainability standards.
- Collaborated with cross-functional teams to gather and analyze requirements, translating them into technical specifications and actionable development plans.
- Conducted performance tuning and optimization for high-availability applications, improving file upload and analysis time by 60%, and enhancing scalability and reliability.

#### Graduate Research Assistant – Texas A&M University, Kingsville, TX

MAY 2023 – JUL 2023

- Conducted detailed analysis of various malware types using advanced tools such as Wireshark and Cuckoo Sandbox, contributing to proactive threat mitigation strategies.
- Assisted in developing malware analysis and detection methodologies, enhancing organizational capabilities in threat identification.

### PROJECTS

#### TweetApp

MAR 2022 – JUN 2022

**GitHub Link:** <https://github.com/KiranmaiReddy14/My-Workspace/tree/main/TweetApp>

- Developed a comprehensive tweet app, facilitating user account creation, secure signing in, tweet posting, and deletion.
- **Skills:** Angular, Java, Spring Boot, MongoDB, Spring Security

#### WebPortal

JAN 2021 – MAR 2021

**GitHub Link:** <https://github.com/KiranmaiReddy14/My-Workspace/tree/main/webportal>

- Designed and developed a user-friendly medication ordering application for browsing and refilling prescriptions.
- **Skills:** Java, Spring, Spring Boot, Spring Security, JSP

#### Car Control Arduino

AUG 2019 – SEP 2019

- Built a Bluetooth-enabled robotic car using Arduino, enhancing control via voice commands and mobile devices.