

# MOULIKA NAGULAVANCHA

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## SKILLS SUMMARY

- **Languages:** Java, JavaScript (ES5/ES6), Python, C, TypeScript, CSS, HTML, JSON
- **Frameworks:** Node.js, Express.js, MongoDB, Angular 8, MySQL, Spring Boot, jQuery
- **Tools:** Git, Postman, AWS, REST APIs, Linux, Docker, Kubernetes, Jira
- **Skills:** Front-end, Agile, Back-end, Unit Testing, Micro-services, SCRUM

## EXPERIENCE

### Graduate Research Assistant - University of Central Missouri

Missouri, U.S.A

Part-Time

August 2023 – Present

- **Assisted** the faculty members in research and other scholarly activities.

### Applications Engineer - Oracle

Hyderabad, Telangana, India

Full-Time

March 2021 - December 2022

- **Developed** various features and enhancements in Connections, Journeys, and Oracle Digital Assistant using Java, OJET, Spectra, and Elastic Search.
- **Optimized** the legacy code implementations – accelerated the software performance by 20%.
- **Implemented** the logging and monitoring of the Connections web application service, which significantly **steered** the developer debugging functionality.

### Software Engineer - Innova Solutions

Hyderabad, Telangana, India

Full-Time

August 2018 - March 2021

- **Re-engineered** the existing configuration applications used by the operations from Angular JS to Angular 8.
- **Designed, analyzed, customized, and developed** the system solutions for Onboarding new customers into the system using design patterns like Singleton, Builder, and State Pattern.
- **Segmented, and scoped** the unit test cases in the project using JUnit5 which **strengthened** the overall test coverage by 70%.
- **Planned** the Java Training sessions for Junior Java Developers and **validated** their performance.

## PROJECTS

- **Bookworm (Front-end, Reactive, APIs):** [\(link\)](#) Browsing and purchasing books have been made easy by this online bookstore web application. Tech: Angular, Material UI, TypeScript, SCSS, CSS.
- **HMS – Hospital Management System (Front-end, Back-end, Database Design) :** [\(link\)](#) An end-to-end web application project with a focus on Database design on how to handle hospital operations effectively. Tech: HTML, CSS, jQuery, Bootstrap, JavaScript, MySQL, PHP.
- **Mastering Microservices (Cloud Native Systems, Back-end, REST APIs) :** [\(link\)](#) A Comprehensive structure on developing Microservices using Spring Boot, Netflix OSS (Zuul, Eureka, Ribbon, Hystrix) and deploy using Docker, Kubernetes for CI/CD.
- **GeekReboot - HMonitor:** [\(link\)](#) A surveillance system using Facial Recognition and Machine Learning algorithms to record attendance in a classroom automatically. Tech: Python, YOLO algorithm, OpenCV.

## EDUCATION

### University of Central Missouri (UCM), Missouri Innovation Campus

Lee's Summit, Missouri, U.S.A

Masters in Science - Computer Science (MSCS) - (Grade: CGPA 4)

January 2023 - Present

### Jawaharlal Nehru Technological University, Hyderabad, Jagtial Campus

Karimnagar, Telangana, India

Bachelor of Technology - Computer Science and Engineering (Grade: CGPA 4)

August 2014 – April 2018

## ACHIEVEMENTS AND AWARDS

- **Certificate of Academic Excellence** in Undergraduate for the academic year 2014 - 2018.
- Third place in the **Transplace (now Uber Freight) Elevator Pitch Contest 2020** in the innovation category.
- **Woman Achievers Award** for the year 2020 at Innova Solutions (formerly ACS Solutions).
- Special Award in **Women Hackathon 2019** for Geek Reboot - HMonitor in the year 2019.