

# ASRITHA CHERUKURI

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GitHub: <https://github.com/asritha1026>

## TECHNICAL SKILLS

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**Technical/Programming Skills:** Java, C, C#, dot NET, Python, SpringBoot, SpringMVC, SpringData, JUnit, Thymeleaf, HTML, CSS, typescript, Javascript, Angular, React-Native, React JS, bootstrap, Node.js, MySQL, MongoDB, Firebase, Postman REST API Testing Tool, Docker, Kubernetes

**CI/CD tools:** Azure Devops, Aws CodePipeline

**Cloud Technologies:** AWS services, Azure technologies

**IDE tools:** Android Studio, Eclipse, Visual Studio Code, Jupyter Notebook, GitHub.

## EDUCATION

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### MASTER OF SCIENCE IN COMPUTER SCIENCE

The University of North Carolina at Charlotte

Aug 2022 - December 2023

### BACHELOR OF TECHNOLOGY COMPUTER SCIENCE AND ENGINEERING

Amrita Vishwa Vidyapeetham, Coimbatore, India

June 2017- June 2021

## WORK EXPERIENCE

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### GRADIENT CONNECT

Lead Software Developer

May 2023 – Oct 2023

- Developed mobile apps using React Native combined with Google Firebase, ensuring seamless data synchronization and robust backend support for an enhanced user experience.
- Spearheaded the migration of the Gradient website from a React-based system to a Spring Boot application, significantly boosting its speed, scalability, and future update capabilities.
- Strengthened website security by implementing advanced Spring Security measures, fortifying the site against potential threats and ensuring the protection of sensitive data.
- Collaborated closely with the team to translate project requirements into user-friendly features, leveraging APIs for smooth functionality.
- Mentored interns in project management while actively contributing to app development and website migration, actively troubleshooting issues.
- Engineered mobile-responsive pages using React Native, ensuring consistent performance across diverse devices.
- As a front-end and web developer, crafted a responsive Gradient management website using Java Spring Boot, JavaScript, and Thymeleaf for an intuitive user interface.
- Designed and deployed Gradient LLC's public-facing site on AWS EC2, striving for an optimized user experience and maximum availability.
- Employed JUnit for testing, ensuring the reliability and stability of the codebase.
- Utilized browser-based inspect tools for debugging and optimizing front-end elements, enhancing overall website performance.
- Leveraged log4j/slf4j extensively for comprehensive and effective logging, facilitating debugging and system monitoring throughout the project lifecycle.
- Employed Git for version control, fostering efficient collaboration and streamlined code management.
- Orchestrated website optimization using cloud technologies like AWS CloudFront, SSL, Route53, and S3 for improved performance, reliability, and scalability.
- Leveraged Docker for containerization, streamlining deployment and ensuring consistent performance across various environments with scalable and isolated application execution.

### COGNIZANT TECHNOLOGY SOLUTIONS

Full Stack Developer

January 2021 - July 2022

- Developed and maintained a digital workplace for document management, creation, and authentication using java SpringBoot.
- Implemented robust authentication mechanisms for confidential documents, ensuring data security and compliance.
- Created responsive web pages using SpringBoot, Bootstrap, CSS, and HTML5 to deliver an exceptional user experience.
- Successfully integrated APIs and leveraged App Insights to track document status and enhance application functionality.
- Conducted thorough feasibility assessments to evaluate the practicality of implementing new features, considering technical challenges and resource requirements.
- Managed the CI/CD pipeline, automating build and deployment processes to ensure seamless software delivery.
- Actively addressed and resolved reported bugs, working collaboratively with the testing team using Jenkins to enhance software reliability.
- Collaborated effectively with cross-functional teams, providing regular progress updates and participating in code reviews.
- Proficient in an Agile environment, actively engaged in Scrum meetings, daily stand-ups, and effective communication.
- Vigilantly identified and resolved bugs detected by the testing team, demonstrating proficiency in both developer-driven unit testing and thorough debugging.

## KEY PROJECTS

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### Hospital Appointment Management System

- Developed backend functionalities utilizing Spring Boot framework.
- Implemented role-based access control (Admin, Doctor, Patient) for secure data access.
- Created RESTful API endpoints for efficient data interaction.
- Integrated MySQL/PostgreSQL databases for storing appointment-related information.
- Implemented search filters for doctors and appointment slots.
- Enabled contact us form for appointment enquiries using AWS Simple Email Services (SES).
- Generated reports on appointment history and hospital performance.
- Utilized Java 8/11 and Spring Data JPA for backend development.
- Ensured secure data transmission via encryption (HTTPS).
- Conducted unit testing using JUnit and Mockito for dependency mocking.
- Employed Docker for containerization and Jenkins/GitLab CI/CD for continuous integration.
- Debugged Java code using debug mode in various Integrated Development Environments (IDEs) to swiftly identify and resolve runtime issues across multiple projects.
- Utilized log4j/slf4j extensively to systematically log the application flow, ensuring comprehensive tracking and analysis of system behavior across diverse projects.

### Movie Ticket Reservation System

- Developed a comprehensive movie ticket reservation system using Node.js, Express.js, MongoDB, HTML, CSS, and JavaScript as part of the "Software System Design and Implementation" course.
- Implemented user authentication and registration functionalities to provide a personalized experience for users.
- Enabled users to explore available movies, select seats, and securely book tickets through an intuitive web portal.
- Utilized MongoDB to efficiently manage user data, reservations, and movie details, ensuring seamless data retrieval and storage.
- Applied responsive design principles to ensure the platform's user-friendly interface adapts to various devices.
- Incorporated real-time validation and error handling for input forms, enhancing the user experience and minimizing errors.
- Implemented robust payment processing for ticket bookings, ensuring the security of sensitive data.
- Demonstrated problem-solving skills by addressing challenges related to data modeling, user authentication, and dynamic content rendering.
- This project highlighted the application of full-stack development concepts in the context of real-world scenarios and exemplified proficiency in front-end and back-end technologies.

### **Product Trading Web Application**

- Implemented a product trading website using Node, Express, MongoDB, Mongoose, and HTML/CSS, JavaScript.
- Followed the MVC (Model View Controller) pattern during development.
- Established user authentication/sessions using express-session modules and custom middlewares.
- Created flash messages for user notifications using the connect-flash module.

### **Kathakali Face Expression Detection Using Deep Learning Techniques**

- Kathakali is an Indian classic dance with 9 expressions. The project objective is to detect the expression from image data using deep learning Techniques.
- The CCN model gave good results for the dataset of images.
- The project report is paper published in IEEE,2020

### **CERTIFICATIONS**

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#### **AWS Certified Developer – Associate**

Date Achieved: October 2023

Validation ID: **WGYKM63201Q1Q055**

Validate at : <https://aws.amazon.com/verification>