

# BHANU SAISREE THANNIRU

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## EDUCATION

<b>University of North Carolina at Charlotte, MS – Computer Science, CGPA: 4.0</b>	<i>Dec 2025</i>
<i>Software System Design and Implementation, Cloud Computing, Visual Analytics, Artificial Intelligence</i>	
<b>Vignan's Lara Institute of Technology and Science, BTech – Information Technology, CGPA: 3.52</b>	<i>Sept 2020</i>
<i>Java Programming, Python, Data Structures, Database Management System, Web Technologies, Operating Systems</i>	

## TECHNICAL SKILLS

<b>Programming Languages</b>	:	Java, Python, JavaScript, TypeScript
<b>Web Technologies</b>	:	HTML, CSS, Bootstrap, jQuery, Angular, React, Node.js
<b>Frameworks</b>	:	Spring, Spring Boot, Hibernate, Flask, Streamlit
<b>Databases</b>	:	MySQL, PostgreSQL, MongoDB
<b>Cloud &amp; Tools</b>	:	AWS, Joget, GitHub, Postman, VS code, Jira, Docker, Kubernetes, Confluence
<b>Methodologies</b>	:	Agile, Test-Driven Development (TDD), SCRUM, Kanban

## EXPERIENCE

### University of North Carolina at Charlotte

*Graduate Teaching Assistant*

*Mar 2024 – Present*

- Mentored 60+ students in “Web App Design and Development” and “Introduction to Computer Systems,” guiding them through programming concepts and best practices.
- Delivered technical presentations and live coding sessions to clarify key topics in React, REST APIs, Linux scripting, and Assembly language.
- Guided students through 100+ project issues by resolving bugs, improving Git workflows, and clarifying debugging strategies, leading to higher assignment success rates and reduced repeat queries.

### Capgemini Technology Services India Limited

*Feb 2021 – Jan 2024*

*Senior Software Engineer*

- Redesigned and rebuilt internal business process applications - systems for order tracking, approvals, and equipment management into full stack solutions using Spring Boot and Angular, improving performance and user experience.
- Built REST APIs to support role-based workflows, SLA tracking, and escalation logic, enabling integration across procurement and asset modules and reducing manual coordination overhead by 25%.
- Developed modular frontend components using Angular, TypeScript, and jQuery with features like auto-fill, dependent fields, and conditional rendering, reducing user input errors by 25%.
- Created interactive dashboards with Angular Material and Chart.js, enabling real-time tracking of approval statuses and improving process transparency.
- Implemented PostgreSQL stored procedures for multi-level procurement approvals with SLA enforcement and compliance checks, cutting redundant logic by 40% and ensuring transactional consistency.
- Migrated workloads to AWS EKS with Fargate for serverless scaling and RDS PostgreSQL with read replicas, optimizing costs via pod auto-scaling and decoupled compute/storage.
- Achieved over 93% test coverage by implementing robust unit and integration tests for backend components using JUnit and Mockito, ensuring high reliability and maintainability.
- Guided Agile teams, defined user stories and facilitated sprint reviews, driving a 20% boost in collaboration and a 15% increase in development efficiency.

## PROJECTS

<b>Personal Budget Planning Application, <a href="#">Link</a></b>	<b>Node.js, Angular, Firebase</b>
<ul style="list-style-type: none"><li>• Built a budget management tool for tracking income, expenses, and financial goals, featuring secure user authentication and interactive dashboards for real-time insights.</li></ul>	
<b>Online Pizza Ordering Application, <a href="#">Back-end</a>, <a href="#">Front-end</a></b>	<b>Spring Boot, Angular, Oracle</b>
<ul style="list-style-type: none"><li>• Developed a role-based web application using a microservice architecture, enabling admins to manage menus via CRUD operations and users to view/add cart items through independent services, and future-ready data management.</li></ul>	
<b>Real-time Wav2Lip Application, <a href="#">Link</a></b>	<b>PyTorch, OpenVINO, Streamlit</b>
<ul style="list-style-type: none"><li>• Optimized an audio-video synchronization model to enable real-time lip movement, achieving faster inference.</li><li>• Designed a user-friendly interface for seamless upload, processing, and visualization of synchronized outputs.</li></ul>	

## CERTIFICATION

- Infosys Certified Software Programmer (InfyTQ)