Chinni Krishna Mari Setty

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EDUCATION

Central Michigan University **Jan 2024 – Dec 2025**
Masters in Computer Science *Mount Pleasant, MI*

- Related Coursework: Web Development, Cloud Computing, Software Engineering, Mobile Application Development, Data Analytics

Sree Vidyanikethan Engineering College **Jun 2019 – Jun 2022**
Bachelor of Engineering in Computer Science *Tirupati, India*

- Relevant Coursework: Data Structures, Object Oriented Programming, Database Management Systems

TECHNICAL SKILLS

Expertise Areas: Full-stack Development, Microservices, Design Patterns, Cloud Architecture & Solutions, RESTful APIs
Languages: Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS3, Kotlin
Databases: MySQL, SQL Server, MongoDB, PostgreSQL, Oracle, NoSQL, Redis
Frameworks/Web Technologies: Spring Boot, React, Node.js, jQuery, Bootstrap, Vue.js, REST APIs, Apache, Flask, Tailwind CSS
Technologies: AWS, Git, Bitbucket, Apache Kafka, Docker, Kubernetes, Jenkins, Maven, Tableau, Postman, Jira, VMware, Ansible, Terraform, Eclipse, Atlassian Suite

EXPERIENCE

Software Engineer | ***Central Michigan University*** **Jan 2024 - Dec 2025**

- Developed robust web applications using Java Spring Boot and React, implementing scalable microservices architecture with efficient data structures and algorithms.
- Built and deployed RESTful APIs with proper error handling and validation, achieving 99.9% system uptime through automated deployment practices.
- Created reusable React components with modern hooks and state management, reducing development time by 35% across university projects.
- Implemented AWS serverless solutions using Lambda functions and integrated with RDS for secure data handling, resulting in 25% reduction in operational costs.
- Collaborated with cross-functional teams in agile development environment, participating in code reviews and implementing best practices throughout the software development lifecycle.

Research Assistant | ***Central Michigan University*** **Jan 2024 - Dec 2025**

- Conducted research in full-stack development methodologies and cloud-native application architectures, contributing to academic publications.
- Analyzed performance metrics and optimization techniques for enterprise web applications, improving system efficiency by 20%.
- Assisted in developing research frameworks for comparing different full-stack development approaches and cloud deployment strategies.
- Presented research findings on modern web development practices at academic conferences and workshops.

Software Engineer | ***Cognizant*** **Jun 2022 - Nov 2023**

- Developed robust enterprise applications using Java Spring Boot, implementing efficient data structures and algorithms that enhanced data retrieval by 30% and reduced error rates by 20%.
- Built scalable microservices architecture supporting concurrent user requests with proper error handling and validation, achieving reliable system performance under production load.
- Created reusable React components with functional programming principles, developing 8+ modular UI components that reduced development time by 40% across different modules.
- Implemented AWS cloud solutions using Lambda functions integrated with VPCs for secure data handling, resulting in 25% reduction in operational costs.
- Optimized backend infrastructure and database queries, achieving 99.9% system uptime through automated deployment practices and monitoring.
- Collaborated in agile development with 15+ developers, participating in code reviews and implementing best practices for full-stack development.

Software Development Intern | ***Epam Systems India Pvt Ltd*** **Jun 2020 - May 2021**

- Designed and developed customer profile management system using React frontend with Java Spring Boot backend APIs, maintaining 99.9% user satisfaction rate.

- Implemented RESTful web services with proper authentication and authorization mechanisms, ensuring secure data handling and user management.
- Performed systematic debugging and resolved 20+ client-reported issues, enhancing application reliability and customer service satisfaction while ensuring data integrity.
- Documented development processes including 12+ sprint workflows and API documentation in Confluence, facilitating knowledge transfer and reducing onboarding complexity.

PROJECTS

Real-time Data Analytics Platform: ***Java Spring Boot, React, AWS, Apache Kafka***

- Developed and automated ETL pipelines using AWS S3, Lambda, and Redshift for extracting, transforming, and loading large datasets with Java-based processing services.
- Implemented real-time data streaming using Apache Kafka with Spring Boot consumers, processing over 100,000 events per minute with 99.9% reliability.
- Built interactive dashboards using React with data visualization libraries, providing real-time insights and analytics to support data-driven decision making.
- Optimized data processing workflows, improving data processing speed by 35% through efficient algorithms and caching strategies using Redis.

E-Learning Management System: ***Java Spring Boot, React, PostgreSQL, Docker***

- Built high-performance LMS using Java Spring Boot with custom middleware and PostgreSQL optimization, implementing database indexing to achieve 30ms average response time.
- Developed 15+ RESTful APIs with proper error handling and JWT authentication, ensuring reliable data retrieval and secure user management.
- Created responsive React frontend using modern hooks for state management, implementing secure file upload system supporting multiple video formats with progress tracking.
- Containerized the application using Docker and implemented CI/CD pipeline with Jenkins for automated testing and deployment.

Campus Navigation Platform: ***Java Spring Boot, React, MongoDB, AWS***

- Engineered full-stack navigation system with Java backend services and React frontend, implementing custom geolocation algorithms and REST API integrations.
- Built real-time notification system using WebSocket connections with Spring Boot, implementing automatic reconnection and message queuing for 99.9% delivery rate.
- Developed recommendation engine using machine learning algorithms in Java, processing user preferences with optimized data structures for personalized suggestions.
- Implemented efficient caching using Redis and session management with Spring Security, supporting scalable user interactions and authentication.