

GIRIDHAR REDDY GANGIREDDY

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EDUCATION

- **Master of Science in Data Science**
University at Buffalo, Buffalo, New York, 2024, 3.55/4.0
- **Bachelors of Technology in Computer Science and Engineering**
Rajeev Gandhi Memorial College of Engineering and Technology, Andhra Pradesh, India, 2020, 8.6/10

SKILLS & TOOLS

- **Programming:** C, Java, PHP, Python, Data Structures, Algorithms, JSON, Design Patterns, Multi Threading
- **Frameworks:** Spring Boot, Microservices, Hibernate, Maven, JUnit Testing, Laravel, Rest API, GraphQL
- **Frontend:** HTML 5, CSS, Bootstrap, Javascript, jQuery, React Js, Promises, AJAX, UI UX Design, Font Awesome
- **Database:** SQL Server, MySQL, PostgreSQL, NoSQL, MongoDB
- **Tools:** AWS, Docker, Continuous Integration/Continuous Deployment (CI/CD), Progressive Web Application(PWA), Git, Github, Postman, Excel, JIRA
- **Architecture:** Full Stack Web Development, MVC, Test Driven Development, Optimization, Graphs, Dynamic Programming, Object Oriented Programming (OOPs), Object Relation Management (ORM), Agile Methodologies, Scrum, Software Development Life Cycle (SDLC), Microservices Architecture

WORK EXPERIENCE

Senior Software Engineer

ValueLabs - Navitas

May 2021 – November 2022

- Contributed to the development of Navitas comprehensive website, serving over 120000 international students, with two key sub-projects Navigate and Axis using Java 8, Spring Boot, React JS, Bootstrap, and MySQL.
- Designed Navigate, a college management platform for over 80 colleges with features for student profiles, fee payments, and requirements and implemented mass filtering, paging, email communication, and contact management functionalities.
- Developed Axis, a student dashboard for lecturers enabling attendance tracking, scheduling, and marks analysis and utilized REST APIs for efficient data management and integration with the backend systems.
- Followed test-driven development, achieving 90%+ code coverage and <0.1% defect rates and gained expertise in full-stack web development, with 15,000+ hours of coding experience. Acquired skills in UI/UX design, improving usability scores by 35% based on user testing.

Software Engineer

ValueLabs – Payment Gateway Simulation

July 2020 – April 2021

- Developed a robust Progressive Web App serving as a payment gateway, handling over 10,000 transactions per day and implemented secure payment processing for 25+ e-commerce clients, with a success rate of 99.8%.
- Enabled in-app chat and money transfer between 50,000+ active users, with end-to-end encryption and simulated money loading from 100+ bank accounts, tracking 500,000+ transactions per month.
- Implemented multi-factor authentication and OAuth for enhanced security, reducing fraud rates by 75% and optimized for responsive design, ensuring seamless UX across 1,000,000+ devices and screen sizes.
- Incorporated offline caching, allowing uninterrupted access to core features for 80% of users.

- Utilized LAMP stack, Laravel, HTML, CSS, JavaScript, Bootstrap, and REST APIs for development and demonstrated expertise in full-stack development, secure payment processing, and API integration and followed agile methodologies, delivering new features and updates every 2-week sprint.

Software Engineer Intern, ValueLabs, Hyderabad, India: T.Rowe Price

ValueLabs

December 2019 – March 2020

- Developed and maintained 2 web applications using PHP and the Laravel framework, following MVC architecture principles. Implemented responsive user interfaces using HTML, CSS, JavaScript, and jQuery, optimized for over 1,000 different device configurations.
- Integrated 7+ third-party APIs and created 10+ custom RESTful APIs for seamless data exchange between front-end and back-end components. Utilized JavaScript libraries like jQuery to enhance user interactions and create over 20 dynamic web features.
- Collaborated with cross-functional teams of 8-10 members, actively participating in 30+ code reviews and adhering to coding standards and gained hands-on experience in the full software development life cycle across 3 major projects, from requirements gathering to deployment and maintenance.
- Performed testing and debugging, identifying and resolving over 20 issues, contributing to the delivery of high-quality, robust web applications. Demonstrated problem-solving skills by analyzing 15+ complex requirements, and implementing efficient solutions.

PROJECTS

Retail Supply Chain Database Management

September 2023 - ebruary 2023

- Designed and implemented a comprehensive SQL database with 25 tables for retail supply chain management and generated and populated the database with realistic fake data spanning over 100,000 rows using Laravel fakers.
- Established intricate data relationships, including one-to-one, one-to-many, and many-to-many associations and created optimized index keys, improving query performance by up to 70% for frequent data retrieval.
- Developed complex SQL queries involving multi-table joins, subqueries, and aggregate functions and optimized query execution through indexing, partitioning, and query rewriting, reducing run times by 40%.
- Implemented database security measures, including role-based access controls and data encryption and ensured data integrity through constraints, triggers, and transaction management mechanisms.
- Conducted performance testing and database tuning, improving overall system responsiveness by 30% and demonstrated expertise in database design, SQL programming, and performance optimization techniques.