

# Shivani Reddy Marri

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## Education

### Fitchburg State University

MASTER OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.7/4.0

**Massachusetts, USA**

January 2022 - December 2023

**Relevant Coursework:** Operating Systems & Networking, Practice Computer Programming, design and analysis of algorithms, Theory of Computation, Database Design, Adv Math Computer Scientists, Advanced Programming.

### Mahatma Gandhi Institute of Technology

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING, GPA: 3.1/4.33

**Hyderabad, INDIA**

July 2017 - July 2021

## Skills

### Languages

Python, C, C++, HTML, CSS, JavaScript, Java, SQL

### Databases

MySQL, DynamoDB, PostgreSQL

### Frameworks

Django, Flask, JUnit, Selenium, Nodejs, React.js, Pandas, NumPy, Bootstrap

### Tools

Git, Jira, AWS, GCP, Docker, Jupyter Notebook

## Experience

### Verity Technologies Pvt. Ltd.

Jan 2020 - Dec 2021

SOFTWARE DEVELOPER

- Designed and orchestrated backend APIs for a WebRTC-based multi-party video conferencing web app, resulting in a 40% increase in user engagement and a 15% decrease in buffering issues.
- Implemented Django templates, ORM, and forms to enhance database communication, resulting in a 30% decrease in query response time and a 20% increase in overall system performance.
- Optimized database queries and indexing strategies, resulting in a 15% improvement in query performance and reduced server load, leading to faster application response times.
- Redeveloped an existing system to support customer account management, scheduling, and time tracking; enabled API calls by making use of Amazon API Gateway, AWS Lambda, and DynamoDB, lowering the company's cost by 12%.

### RAR It Consultants

Sep 2019 - Dec 2019

SOFTWARE DEVELOPMENT INTERN

- Assisted in 20 software development tasks, including feature implementation, code reviews, and debugging, resulting in a 25% reduction in development time and improved code quality.
- Participated in three training programs and workshops focused on software development best practices and emerging technologies, significantly enhancing technical proficiency.

## Projects

### Online Encyclopedia Project: Wikipedia

TECH STACK: PYTHON, DJANGO, HTML, CSS, JAVASCRIPT, SQL, BOOTSTRAP, NODEJS, REACT, GCP (GAE, DATAFLOW, BIG QUERY)

- Implemented a scalable cloud solution for a wiki search web interface, optimizing performance during traffic spikes; reduced load times by 30% and enhanced user experience, resulting in a 25% increase in user engagement.
- Deployed live wiki change subscriptions using WebSocket technology, resulting in a 40% surge in user engagement metrics, significantly enhancing the browsing experience.
- Developed a JavaScript application leveraging Big Query APIs for efficient storage and retrieval of wiki search data, thereby enhancing search functionality.
- Managed Dataflow jobs in JavaScript, dynamically scaling resources within pipelines, resulting in a 40% decrease in processing time and a 30% improvement in overall job efficiency, facilitating scalable data processing.

### Todo Manager Web Application

TECH STACK: NODEJS, PYTHON, HTML, CSS, JAVASCRIPT, AWS (S3, EC2, SQS)

- Developed functionalities for adding, checking off, and deleting tasks dynamically, allowing users to maintain an organized to-do list effortlessly.
- Utilized browser's local storage to ensure seamless persistence of user tasks, enabling users to access their to-do list across browser sessions.
- Offer synchronization across multiple devices and platforms, ensuring that users have access to their tasks wherever they are.

### Restaurant Website Development

TECH STACK: HTML, CSS, PYTHON, BOOTSTRAP

- Developed a fully responsive website using HTML, CSS, and Bootstrap framework. Implemented Bootstrap's grid system, components, and utilities to ensure consistent design and functionality across various devices and screen sizes. Utilized custom CSS to enhance styling and create visually appealing user interfaces.

## Certifications

- Introduction to Databases: CCBP, NXT WAVE
- Developer Foundations: CCBP, NXT WAVE
- Build Your Static Website: CCBP, NXT WAVE
- Programming with JavaScript: COURSERA
- Introduction to Front-End Development: COURSERA