

# JYOTHIKA UPPU

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## EDUCATION

### University of Central Missouri

MS in Computer Science(GPA: 4.0)

Expected May 2025

Lee's Summit, KS

- **Coursework:** Advanced Database Systems, Compiler Design, Software Process Project Quality Management

### Jawaharlal Nehru Technological University

B.Tech in Electronics and Communication

May 2023

Guntur, India

- **Coursework:** Data Structures and Algorithms, Computer Architecture and organizations, OOPS, IOT

## SKILLS

Languages: JAVA, Python, JavaScript, SQL, C and C++.

Backend: NodeJS, ExpressJS.

Frontend: HTML, CSS, Bootstrap, ReactJS.

Database: MySQL, MongoDB.

Libraries & Frameworks: d3.js Library, NumPy, Pandas, Selenium

Version Control & Others: GIT, Postman, Data structures & Algorithms.

AWS Services: EC2, S3, IAM, Lambda, RDS, VPC, CloudWatch

Other Skills: Troubleshooting, Monitoring, Basic Networking

## WORK EXPERIENCE

### Junior Web Developer

Guntur, India

Kallam Haranadha Reddy Institute of Technology

January 2021 – January 2023

- Developed and maintained the front-end of the college website using HTML, CSS, and JavaScript, improving page load times by 25%, leading to a smoother navigation experience.
- Collaborated with a team of 3 developers to design a MySQL database for storing over 2,000 student records and course data, enhancing data retrieval efficiency by 40%.
- Integrated an online course enrollment feature that supported over 1,500 students, reducing registration processing time by 30%.
- Assisted in the development of a secure login system using PHP, achieving 100% user authentication accuracy for both faculty and students.
- Conducted user testing sessions with 50+ students and faculty members, collecting feedback that resulted in a 15% increase in user satisfaction.
- Deployed the project on a local server with a 99% uptime, ensuring consistent performance and reliable updates aligned with college requirements.to meet college requirements.

## PROJECTS

### Inventory Management System

- Developed and maintained a full-stack web application using React, Spring Boot, and MongoDB for inventory and supplier management.
- Built interactive UI components and a responsive user experience, improving page load time by 20%.
- Integrated supplier and purchase management features, handling 100+ product entries and 50+ supplier interactions in real-time.
- Implemented cart functionality that allowed users to manage orders and payments, increasing efficiency by 30%.
- Collaborated with a cross-functional team, addressing over 15+ feature requests from stakeholders.

### Private Mailing System

- Engineered an innovative application to enhance student request workflows in a college setting, yielding a 20% reduction in request processing time.
- Employed the MERN stack to develop a scalable web application, resulting in a 40% increase in performance and guaranteeing seamless user experience across all devices

### Static Website Hosting with S3

- Designed and deployed a personal portfolio website using Amazon S3 with static website hosting enabled.
- Configured custom domain routing through Route 53 and enabled HTTPS via CloudFront and AWS Certificate Manager.
- Implemented secure bucket policies and optimized content delivery through edge locations using CloudFront.

### Expense Tracker API

- Developed a serverless REST API to manage personal expenses using AWS Lambda, API Gateway, and DynamoDB.
- Implemented secure access controls with IAM roles and policies for role-based authorization.
- Enabled real-time API testing and response handling via Postman; ensured high availability with stateless architecture.

## **CERTIFICATIONS**

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- Certified in “The Public Speaking Skills” course conducted by IIT Kharagpur.
- Certified for successfully completing “TCS ION Career Edge – Young Professional” course.
- Certified for participation in “Hands-on workshop of Interfacing and Programming using Arduino” conducted by University College Of Engineering Narasaraopet - JNTUK .
- Certified as “AWS Cloud Practitioner” .
- Certified on successful completion of Python Programming Course by “Code Tantra”.
- Certified as “AWS Solutions Architect”