

Spurthy Mutturaj

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EDUCATION

Master of Science in Information Technology

Arizona State University, Tempe, Arizona

Expected Dec 23

GPA (4.0 /4.0)

Relevant Coursework: *Advanced DBMS, Data Visualization, Middleware Programming, Unix and Shell, Cloud Architecture (AWS), Advanced Operating Systems.*

Bachelor's in Information science and Engineering

Visvesvaraya Technological University, Bangalore, India

May 21

GPA (7.9 /10)

Relevant Coursework: *Data structures and Algorithms, Object Oriented Concepts, Computer Networks, Machine Learning, Software Testing.*

SKILLS

Languages: Python, HTML, CSS, SQL, JavaScript, C, C++, PHP, Adobe ColdFusion Markup Language.

Tools/Technologies/Frameworks: Tableau, Git, Flask, Bootstrap, Node.js, Jenkins, XAMPP, Flask, Docker, Kubernetes.

Database: MongoDB(NoSQL- JSON format), MySQL, CouchBase.

ACADEMIC PROJECTS

Cloud Infrastructure Design and Deployment using AWS

May 2023

- Comprehensive knowledge of cloud computing concepts and AWS global infrastructure, with a focus on virtual networking, storage solutions (S3, EBS, Glacier), and security best practices (IAM, encryption, network security),
- Configured VPCs, subnets, and routing tables for efficient virtual networking in AWS environments.
- Implemented an Application Load Balancer leveraging Elastic Load Balancing and utilized Amazon EC2 Auto Scaling to optimize application scalability and availability. Databases(RDS, DynamoDB). Converted applications to microservices.
- Deployed a diverse array of AWS services including Amazon EC2, Auto Scaling Groups, AWS Lambda, RDS, Systems Manager, CloudWatch, S3 for static website hosting, EFS for scalable file storage. Followed DevOps Principles.

Online Banking Website

Dec 2022

- Engineered the backend of an Online Banking System utilizing MVC Architecture, incorporating functionalities such as login and logout mechanisms and client server architecture.
- Employed JWT Token-based user authentication for enhanced security and protected access to the application. Utilized MongoDB for data storage and leveraged Mongoose for database queries, ensuring efficient data management.
- Designed and tested 15+ robust RESTful API for seamless CRUD operations using Postman.

Vaccine Management System

Mar 2022

- Designed a schema using ORM and ER diagrams to define project entities and requirements, optimized data organization and accelerated development timeline. Formulated 5 queries for demographic analysis of vaccination and infections statistics.
- Developed a relational database system using SQL on SQL Server Management Studio to automatically allocate a vaccine to an individual based on age using 2 triggers, 2 stored procedures, and 1 user-defined functions.

Restaurant Recommendation System for Business and Users

Jun 2021

- Built an application to recommend restaurants to users using Natural Language processing and Gensim.
- Used Cosine Similarity to match user profile against all the business profiles, achieving a 75% prediction accuracy.
- Stored close to 500 user and business profiles, that are created after filtering and pre-processing the dataset, in MongoDB.
- Implemented a UI using HTML, CSS, and Flask to allow users to interact with the system using a unique user-id.
- Authored and published an international research paper in IJIEEB (<http://www.mecspress.org/ijieeb/ijieeb-v13-n3/v13n3-3.html>)

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: Web/Software Developer

Mar 2022 - Present

- Developed and maintained 100+ visually stunning web pages using HTML, CSS (Bootstrap), and WordPress CMS resulting in a 25% increase in user engagement.
- Collaborated with a 3-member team to migrate the department's 120+ page website from custom to university standard theme.
- Engineered a contact management system using CFML, JavaScript, jQuery and AJAX; Attained an 80% reduction in real-time data generation and display duration. Incorporated Agile methodology.
- Identified, eliminated, and updated unused source code across 50+ applications to optimize server storage by 5% and addressed potential security vulnerabilities. and the University uses these apps for more than 20,000 students.
- Converted jQuery UI and jqGrid to Fomantic UI and DataTables, enhancing user experience.

UXL Technology Academy, Bangalore, India: Technical Course Content Creator

Jun 2020 - Oct 2020

- Wrote technical content using Python and Java programs for an online coding academy used to teach K-12 education.