Spurthy Mutturaj

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EDUCATION

Master of Science in Information Technology — Expected Dec 23
Arizona State University, Tempe, Arizona — GPA (4.0 /4.0)
Relevant Coursework: Adv. DBMS, Data Visualization, Middleware, Unix and Shell, Cloud Architecture (AWS), Adv. Operating Systems.

Bachelor's in Information science and Engineering — May 21
Visvesvaraya Technological University, Bangalore, India — 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/Frameworks: AWS, Tableau, Git, Flask, Bootstrap, Node.js, Express.js, Jenkins, XAMPP, Docker, Kubernetes.
Database: MongoDB(NoSQL- JSON format), MySQL, MS SQL Server.

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: *Web/Software Developer* — Mar 2022 - Present
- Redesigned 4 web Appln. based on **jqGrid** and **Select2** based UI to **DataTables** and **Fomantic** UI for enhanced **UX**.
- Applied **agile** methodologies in building a real-time **contact management system** of 30+ apps.
- **Optimized** server storage by 5% by **identifying and eliminating** unused code in 50+ apps (used by 20,000+ students).
- Coordinated, enhanced, and managed 100+ web pages with 80% increase in user activity.
  Tools: HTML5, CSS, JavaScript, Adobe ColdFusion, jQuery, AJAX, SQL, JSON, WordPress, testing and debugging.

UXL Technology Academy, Bangalore, India: *Programmer* — Jun 2020 - Oct 2020
- Wrote technical content using **Python** and **Java** for an online coding academy used to teach K-12 education.
- Conducted online sessions to address doubts and inquiries for a cohort of over 100 students.

ACADEMIC PROJECTS

Cloud Infrastructure Design and Deployment using AWS — May 2023
- Comprehensive knowledge of cloud computing concepts and **AWS Resources** through 10+ projects. Projects focused on servers, virtual networking, storage solutions and security best practices using **DevOps**.
- Configured **VPCs**, 2 subnets, and routing tables for efficient virtual networking in the internet.
- **Hosted static** web applications, **Migrated** databases to MariaDB RDS, **IAM** Development and simulation.
- Implemented Load Balancers, Auto Scaling groups and Converted applications to microservices.
  Tools: AWS CLI, EC2, AWS Lambda, RDS, Systems Manager, CloudWatch, S3, IAM, EFS, Cloud Formation, SQS.

Online Banking Website — Dec 2022
- Engineered the **middleware** of an Online Banking System utilizing **MVC** Architecture
- **Front-End and backed based** on **client - server** architecture.
- Employed **JWT** Token-based user authentication for security and protected access to the application.
- Designed and tested 15+ robust **REST API's** for seamless CRUD operations using **Postman**.
  Tools: Software Development using JavaScript, MongoDB, React, Mongoose, HTML, CSS.

Vaccine Management System — Mar 2022
- Developed a relational database system to allocate a vaccine to an individual based on 3 age groups.
- Designed the schema using ORM and **ER diagrams** to define project requirements and approx.10 entities.
- Formulated 10+ queries, **triggers**, **stored procedures**, **user-defined functions** to allocate vaccines and analyze statistics.
  Tools: SQL, SQL Server Management Studio, Visual Studio Code, Relational Database.

Restaurant Recommendation System — Jun 2021
- **Built** a UI-based Web app using **NLP** & **Gensim** to recommend restaurants to users, with yelp dataset of 500+ profiles.
- Analyzed, preprocessed, and stored over 500 user and business profiles as vector in the database.
- Used **Cosine Similarity** to match user profile against all the business profiles, providing a score from 0 to1.
- Published 1 international research paper in IJIEEB (http://www.mecs-press.org/ijieeb/ijieeb-v13-n3/v13n3-3.html).
  Tools: Python, Flask, pymongo, MongoDB, NLTK, Machine Learning-Natural Language Processing, Topic Modelling.