Spurthy Mutturaj

spurthymutturaj@gmail.com | +1 (602)-785-5874 | https://www.linkedin.com/in/spurthym/

EDUCATION

Master of Science in Information Technology   Jan 2022 – Dec 2023
Arizona State University, Tempe.   GPA (4.0 /4.0)

Relevant Courses: Data Structures & Algorithms, Object Oriented Programming, Adv. DBMS, Middleware Programming, Cloud Architecture (AWS) , Adv. Operating Systems, Computer Networks, Software Engineering – Agile methodology.

SKILLS

Languages: Python, C++, JavaScript, Java, Adobe ColdFusion Markup Language(CFML).
Tools/Frameworks: AWS, Tableau, Flask, Node.js, Express.js, React, Jenkins, Docker, Kubernetes, CI/CD.
Database: MongoDB(NoSQL), MySQL, MS SQL Server.

PROFESSIONAL EXPERIENCE

Arizona State University, Tempe, AZ: *Software Developer*   Mar 2022 – Dec 2023

- Migrated an application based on jqGrid and Select2 UI to DataTables and Fomantic UI for enhanced UX.
- Identified & fixed bugs introduced during the migration and development process leading to a more stable release.
- Developed a real-time contact management system gathering data from 30+ applications.
- Optimized server storage by 5% by eliminating unused code in 50+ apps (used by 20,000+ users).
- Achieved an 80% surge in user engagement (Google Analytics) through consistent content updates and marketing.
  Tools: HTML, CSS, JavaScript, jQuery, AJAX, JSON, WordPress, Git.

UXL Technology Academy, Bangalore, India: *Programmer*   Jun 2020 - Oct 2020

- Instructed a group of 20 high school students at a coding academy, elucidating object-oriented programming (OOPS) concepts and programming paradigms using Python and Java programs.

ACADEMIC PROJECTS

Cloud Infrastructure Design and Deployment using AWS   May 2023

- Comprehensive knowledge of AWS resources through 10+ projects. Projects focused on:
  - servers, virtual networking (VPCs & subnets), storage solutions and security best practices.
  - Hosted web-applications, migrated databases to MariaDB, IAM development.
  - Implemented load balancers, Auto Scaling groups and converted applications to microservices.
  Tools: AWS CLI, EC2, S3, RDS, AWS Lambda, Cloud Watch, Cloud Formation.

Online Banking Website   Dec 2022

- Developed a Banking System using MVC middleware and client-server architecture.
- Crafted and validated 15+ robust REST API's for seamless CRUD operations using Postman.
  Tools: JavaScript, Node.js, Mongoose, MongoDB, JWT Tokens, Visual Studio Code.

Vaccine Management System   Mar 2022

- Implemented a relational database system to allocate vaccines based on 3 age groups.
- Formulated 10+ queries, triggers, stored procedures, user-defined functions to analyze statistics.
  Tools: SQL, SQL Server Management Studio, Relational Database, ER diagrams.

Restaurant Recommendation System   Jun 2021

- Built a personalized engine using NLP & Gensim to suggest restaurants to users, utilizing yelp dataset of 500+ profiles.
- Used Cosine Similarity to match user profile against all the business profiles, providing a score between 0 to1.
- Published international research paper (at IJIEEB) exploring 4 to 5 different recommendation techniques.
  (http://www.mecs-press.org/ijieeb/ijieeb-v13-n3/v13n3-3.html, https://youtube.com/@spurthym, https://github.com/spurthym).