SAI LAKSHMI MOUNIKA GANDHAM

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EDUCATION

Master of Science in Computer and Information Systems.   **May 2024**
University of Texas at Arlington, TX   CGPA: 3.7
[Course Work: Distributed Systems, Artificial Intelligence, Cloud Computing and BigData,Machine Learning, Design and Analysis of Algorithms, Database Systems, Data Mining, Web Data Management, Software Engineering, Special Topics in Networking.**]**

Bachelor of Technology in Computer Science and Engineering   **August 2022**
IARE,Hyderabad, India   CGPA: 3.9
[Course Work: Design Patterns, Operating Systems, Internet of Things[IoT], Compiler Designs, Data Warehousing and Data Mining, Data Structures, Computer Networks, Cloud Computing, Web Designing.**]**

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C, C++, HTML, CSS, PHP
Frameworks & Libraries: React.js, Node.js, Express.js, Django
Databases: MongoDB, MySQL, Microsoft SQL
Tools: Git,VS Code, PyCharm, Eclipse, Jupyter Notebook
Cloud & DevOps: AWS
Other: Agile Methodologies, RESTful APIs, Web Development (Front end & Back end)

EXPERIENCE

Cognizant   **Mar 2022-Aug 2022**
Intern
• **Full-Stack Web Development**: Completed a 400-hour intensive training, mastering the MERN stack, and developed 5+ dynamic web applications with reusable React UI components. Designed and implemented both front-end UI logic and back-end business logic for scalable web applications.
(**Included skills**: Web Design, Designing Front End, Back End Programming)
• **Performance Optimization and Debugging**: Optimised performance for JavaScript frameworks(React.js and Node.js) web apps running in browsers and on servers, resulting in a 20% increase in application speed and efficiency. Investigated and fixed logic issues using Chrome DevTools and VS Code debuggers, enhancing overall application stability and reducing bug count by 15%.
(**Included skills**: Developing APIs, JavaScript Frameworks)
• **APIs Development**: Designed and developed 3 RESTful APIs using Node.js, achieving 95% code coverage through Test-Driven Development (TDD) for an e-commerce platform with over 1,000 monthly active users.(**Included skills**: Web Applications, Website Architecture
• **Collaboration and Agile Practices**: Collaborated with cross-functional teams of 6-8 developers, identifying and resolving software defects. Utilised Agile methodologies to ensure timely delivery of high-quality software solutions.(**Included skills**: Project Management)

ACADEMIC PROJECTS

Fault- Tolerant 2-Phase Distributed Commit Protocol:
•Protocol Design and Implementation: Developed a fault-tolerant 2PC protocol using Python and socket programming. Ensured reliability in handling node crashes through advanced timeout mechanisms and recovery strategies.(**Included skills**: Computer Science, Back End Programming)
•Performance Analysis: Conducted comprehensive testing under various failure scenarios, analysing recovery timelines and transactional outcomes to evaluate and optimise protocol performance.

Cloud-Deployed Web Portal:
•Web Application Development: Designed and deployed a dynamic web portal using React, PHP, HTML, and JavaScript. Integrated front-end UI logic and back end business logic for seamless user experience.(**Included skills**: Web Design, Designing Front End, Back End Programming)
•AI Integration and Cloud Hosting: Integrated an AI chatbot for enhanced user experience and instant support. Implemented scalable cloud hosting on AWS, ensuring high performance and availability.
•Responsive Design and Performance Optimization: Focused on creating a responsive design for seamless usability across multiple devices. Optimised the performance of the web portal for better user experience.

Sentiment Analysis of Product Reviews:
• Machine Learning Model Development: Developed a machine learning model using Python (scikit-learn, pandas, NLTK) to classify product reviews with over 85% accuracy. Performed data preprocessing, feature extraction, and model training.(**Included skills**: Python, Web Applications)
•Automation Scripts: Designed and implemented Python scripts to automate data processing and sentiment analysis, streamlining workflows and improving efficiency.

CERTIFICATIONS AND PRESENTATIONS

• Presented a technical research paper on the development and deployment of a Web Application for Fitness Pack at JNTUH   **May 2022**
• Machine Learning by Andrew NG (Stanford University – Coursera)   **September 2020**
• AWS Cloud Practitioner   **July 2024**
• Software Engineering Virtual Experience(JPMorgan Chase Co)   **July 2020**

CORE COMPETENCIES

Technical Writing, Strategic Planning, Decision Making, Critical Thinking, Conflict Resolution, Resource Management, Ethical Judgement and Integrity, Verbal Communication Skills, Project Management Skills, Problem Solving Skills, Troubleshooting,Organisational Skills,Responsiveness.