SAI SURENDRA KOMMINENI

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PROFESSIONAL SUMMARY

Graduate student in Applied Computer Science with hands-on experience in full-stack development, front-end and back-end web development, and scalable software solutions. Proficient in JavaScript, React, Angular, Node.js, Django, Flask, Express.js, HTML, CSS, and database management. Strong foundation in problem-solving, analytical thinking, and adaptability, with a passion for creating innovative digital experiences.

EXPERIENCE

Teaching Assistant | Grand Valley State University   **08/2024 – Present**

Provide academic support in SQL, Python, and data analytics, helping students master technical concepts.

- Assisted in designing and implementing projects, focusing on data analysis, algorithm optimization, and debugging.
- Encouraged collaborative problem-solving, guiding students through troubleshooting, debugging, and performance tuning.
- Created structured learning materials emphasizing secure, efficient, and reliable database management practices.
- Led comprehensive review sessions for exams, focusing on debugging techniques and performance optimization strategies.

Front End Developer Intern | TruLogics   **01/2023 – 07/2023**

Collaborated on the development of scalable web applications, ensuring a modern, secure, and user-friendly experience.

- Designed wireframes, prototypes, and UI layouts using Figma, ensuring consistency and optimal user experience.
- Developed responsive single-page applications with ReactJS and modern CSS techniques for dynamic, seamless UI.
- Worked with cross-functional teams, ensuring timely delivery of high-quality solutions that met project requirements.
- Participated in all SDLC stages, including requirements gathering, testing, debugging, deployment, and maintenance.
- Leveraged AWS for deployment, managing cloud storage, automating updates, and optimizing performance.

SKILLS

Programming Languages: JavaScript, Python, Java
Frameworks and Libraries: React, Angular, Vue, React Native, Node.js, Django, Flask, Express.js
Web Technologies: HTML, CSS, SCSS, JSP, AJAX, XML, Bootstrap, jQuery, JSON, Web APIs
Databases: SQL (e.g., PostgreSQL, MYSQL), NoSQL (e.g., MongoDB, Redis), Graph Databases (e.g., Neo4j)
Tools & Version Control: Version Control (Git), GitHub, Expo, Figma
Cloud & DevOps: AWS, Microsoft Azure, Google Cloud, Firebase, CI/CD Pipelines
Software Development: Agile Methodologies, Object Oriented Programming, UI/UX Design
Testing and Debugging: Unit Testing, Integration Testing, Debugging, Code Reviews, Test-Driven Development
Courses Completed: Mobile Application Development, Linux, Data Structures & Algorithms, Machine Learning, Operating Systems, Computer Networking

EDUCATION

MASTER OF SCIENCE: APPLIED COMPUTER SCIENCE   **08/2023 - Present**
Grand Valley State University

- 4.0/4.0 GPA

BACHELOR OF TECHNOLOGY: COMPUTER SCIENCE AND ENGINEERING   **08/2020 - 06/2023**
Vasireddy Venkatadri Institute of Technology

- 7.83/10 GPA

PROJECTS

Home Goods Inventory Management

Developed a full-stack web application from the ground up, streamlining real-time inventory tracking and management across multiple categories for store managers.

- Designed and built a scalable, full-stack solution using ReactJS and Tailwind CSS, ensuring an intuitive and modern user interface.
- Created detailed wireframes and interactive prototypes, allowing for precise UI/UX visualization before development.
- Developed secure authentication and authorization features with Firebase Authentication, enabling user login, account creation, and session management.
- Integrated real-time data synchronization with Firebase, ensuring inventory updates and modifications are instantly reflected across the system.
- Conducted comprehensive unit testing and peer code reviews, ensuring high code quality, reliability, and long-term maintainability of the application.

FilmScope

Developed an interactive web application with a user-friendly and feature-rich interface for exploring the highest-grossing films across multiple industries.

- Built a scalable, full-stack platform using React.js, Express.js, and MongoDB, ensuring seamless movie exploration and data retrieval.
- Implemented secure user authentication and role-based access control for admins, users, and guests, enhancing data integrity and accessibility.
- Designed dynamic and visually appealing movie pages showcasing box office data, cast and crew details, reviews, and audience ratings.
- Created advanced filtering options allowing users to explore movies by industry, year, genre, and popularity, improving discoverability.
- Developed a highly responsive and intuitive UI/UX with modern design principles, ensuring smooth navigation and device engagement.

Big Mart Sales Prediction Using Machine Learning

Developed a machine learning-based predictive model to forecast retail sales, enabling data-driven inventory and operational management decisions.

- Developed a predictive model for retail sales forecasting using machine learning to handle linear and non-linear data.
- Applied techniques like XGBoost and Grid Search Optimization to enhance prediction accuracy and optimize model parameters for large datasets.
- Processed large volumes of sales data to identify trends and patterns, enabling data-driven decision-making for inventory management and operational efficiency.
- Key Techniques: XGBoost, Grid Search Optimization, handling large datasets, hyperparameter tuning.

CERTIFICATIONS

- Certified by Meta for the completion of the front-end developer certification.
- Certified by Infosys for the completion of the Infytq program on Python.
- Certified by Aicte for the completion of the course in web development virtual internship.
- Certified by Wipro Talent next for the completion of the course on java j2ee.