VAIBHAV KULKARNI

Software Developer

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EXPERIENCE

Sri Sri Academy | *Freelance Full Stack Developer*   **September 2024 – Present**

• Built a **dynamic and visually engaging Curriculum page** with interactive graphics, enhancing user experience.
• Designed and developed a **Features page** and added multiple new modules using **Next.js** and modern **UI elements**.
• **Integrated Google Drive APIs** to seamlessly upload and manage gallery images on the website.
• Effectively **managed data with Strapi**, ensuring smooth content updates and scalability.
• Delivered a **responsive and visually appealing design**, improving engagement and accessibility for users.
• Collaborated with stakeholders to align development efforts with **organizational goals and future feature planning**.
Website: **Sri Sri Academy**

WEB-DEVELOPMENT, iOS-DEVELOPMENT APPLIED PROGRAMMING PROJECTS

Employee Management System | *MongoDB, Express.js, React.js, Node.js*   **[Git Repository]**

• Created a feature-rich web application to streamline employee record management, improving operational efficiency and reducing manual errors.
• Implemented a **secure login system** to ensure data protection and user privacy.
• Designed a **dynamic dashboard** for streamlined navigation, featuring real-time database updates for accurate record management.
• Integrated **personalized user greetings** for an engaging user experience.
• Focused on building a **scalable** system that can accommodate businesses of varying sizes.
• Automated repetitive tasks, reducing manual errors by 30% and improving operational efficiency.

Green Grocer – E-commerce Platform for Organic Products | *Next.js, Next-Auth, TypeScript, Tailwind CSS, ShadCN UI, Stripe, Prisma, PostgreSQL*   **[Git Repository]**

• Built a feature-rich e-commerce platform for organic products, promoting sustainability and eco-conscious living.
• Integrated NextAuth for secure authentication and personalized user experiences.
• Designed a modern, responsive interface using Tailwind CSS and ShadCN UI for seamless cross-device browsing.
• Utilized Prisma ORM with PostgreSQL for efficient product data management and high performance.
• Enabled secure and reliable payment processing with Stripe integration to enhance user trust.
• Delivered a user-friendly shopping experience, emphasizing eco-friendly product benefits.

MoneyLens (iOS App) |*Swift, SwiftUI, Core ML, Vision, AVFoundation, Core Data, SQLite*   [Git Repository]

Developed an iOS application that detects currency notes using machine learning, announces the detected currency via text-to-speech, and provides offline currency conversion.
• **Currency Detection:** Integrated Core ML and Vision frameworks for real-time currency recognition using a trained model.
• **Camera Integration:** Used AVFoundation to process live camera feeds for instant currency identification.
• **Text-to-Speech Announcements:** Implemented AVSpeechSynthesizer to audibly announce the detected currency for accessibility.
• **Offline Currency Conversion:** Designed a local database using Core Data/SQLite to store exchange rates for conversion without internet dependency.
• **User-Friendly UI:** Built an interactive SwiftUI interface with a scanner view, result display, and a conversion tool.
• **Info & Repeat Features:** Added an info button for app guidance and a repeat function to re-announce the last detected currency.
• **Error Handling & Performance Optimization:** Ensured smooth user experience by handling detection failures and optimizing real-time processing.

LOTRConverter (iOS App) | *Swift, SwiftUI*   **[Git Repository]**

• Designed and developed an iOS app for converting fictional Middle-earth currencies using SwiftUI.
• Created reusable UI components and implemented currency conversion logic using enums.
• Integrated **TipKit** to provide interactive tooltips, enhancing user guidance and user experience.
• Adopted modular architecture with features like state management and dynamic view updates for better maintainability.

[Explored JavaScript through these and many other projects. Discover them all on **GitHub**]

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML5/CSS3, Swift, C, C++
Frameworks: React.js, Node.js, Express.js, Next.js, Bootstrap, Tailwind CSS, SwiftUI
Tools: Git, Docker, VS Code, PyCharm, Xcode
Database Management: SQL, MongoDB, PostgreSQL, Redis
Cloud Platforms: Microsoft Azure, AWS
Development Practices: Data Structures and Algorithms, SDLC, DevOps, MVVM Architecture

CREATIVE PURSUITS

• **Hacktoberfest 2024 Participation**: Contributed to multiple MERN stack open-source projects, successfully merging over 4 pull requests. This experience earned me **Hacktoberfest badges**, demonstrating my ability to collaborate and apply best coding practices.

• Actively participate in tech events such as **Swift Hyderabad, GDG Hyderabad, and Google Build with AI** to stay updated with industry trends. Attending these events has helped me explore new technologies, expand my knowledge, and build valuable connections with like-minded professionals. Additionally, I contribute to open-source projects, learning from real-world experiences and collaborative problem-solving. Engaging in these activities fuels my passion for continuous learning and innovation.

EDUCATION

Bachelors of Engineering - Information Technology   **June 2018 – May 2022**
Maturi Venkata Subba Rao College (Osmania University), Hyderabad, Telangana.
Relevant Courses: Data Structures, Algorithms, Web Development, Software Engineering