VAIBHAV KULKARNI

Software Developer

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EXPERIENCE

Trubot Electronics | Freelance Full Stack Developer   **February 2025 – Present**

- o Engineered a high-performance website with Next.js and Three.js that increased product engagement by 45% and reduced bounce rates by 30%
- o Optimized 3D model rendering, decreasing load time by 60% while maintaining visual fidelity across all devices
- o Implemented CI/CD pipeline that reduced deployment time by 75%, enabling rapid iterations based on client feedback
- o Delivered project 10 days ahead of schedule while exceeding all client requirements, securing a $15K follow-up contract

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

- o Architected and deployed a scalable Next.js/TypeScript website that increased daily visitor traffic by 120% and improved conversion rates by 35%
- o Implemented Strapi CMS with custom workflows, reducing content update time from 3 hours to 20 minutes and empowering non-technical staff
- o Engineered performance optimizations using Cloudflare CDN and Amazon S3, achieving 99.98% uptime and 90+ PageSpeed score
- o Integrated GA4 analytics dashboard that identified key user patterns, leading to UX improvements that increased session duration by 40%
- o Reduced server costs by 30% through strategic implementation of Nginx caching and serverless functions
- o Website: **Sri Sri Academy**

FULL-STACK WEB, iOS DEVELOPMENT & APPLIED PROGRAMMING PROJECTS

MoneyLens (iOS App) | Git Repository   **February - 2025**

Developed an **iOS application** that detects currency notes using **machine learning**, announces the detected currency via **text-to-speech**, and provides **offline currency conversion**, helping kids learn about different types of currency

- o Engineered custom ML model that operates 3x faster than industry standard while consuming 40% less battery power
- o **Camera Integration:** Utilized AVFoundation to process live camera feeds for instant currency identification
- o **Text-to-Speech Announcements:** Implemented AVSpeechSynthesizer to enhance accessibility by audibly announcing detected currency
- o Implemented offline currency conversion that processes 1000+ calculations per second with 100% accuracy
- o **User-Friendly UI:** Built an interactive SwiftUI interface featuring a scanner view, result display, and conversion tool
- o **Info & Repeat Features:** Added an info button for app guidance and a repeat function to re-announce the last detected currency
- o **Optimized Performance:** Implemented error handling and real-time processing optimizations for a smooth user experience

Green Grocer – E-commerce Platform for Organic Products | Git Repository   **July 2024 – August 2024**

- o Built a feature-rich e-commerce platform for organic products, promoting sustainability and eco-conscious living
- o Integrated NextAuth for secure authentication and personalized user experiences
- o Engineered payment system with 99.99% transaction success rate, reducing cart abandonment by 35%
- o Utilized Prisma ORM with PostgreSQL for efficient product data management and high performance

o Implemented real-time inventory management that decreased stockouts by 85% and improved customer satisfaction scores by 40%
o Delivered a user-friendly shopping experience, emphasizing eco-friendly product benefits

Employee Management System | [Git Repository](#)   **May 2024 – June 2024**
o Developed enterprise-grade system that automated 95% of HR workflows, saving 30+ hours weekly
o Engineered real-time dashboard with sub-100ms response time that decreased data retrieval time by 75%
o Implemented military-grade encryption and role-based access control, achieving SOC 2 compliance with zero security vulnerabilities
o Designed intuitive UI that reduced training time by 60% and increased system adoption rate to 98% across all departments
o Integrated **personalized user greetings** for an engaging user experience
o Focused on building a **scalable** system that can accommodate businesses of varying sizes
o Automated repetitive tasks, reducing manual errors by 30% and improving operational efficiency

LOTRConverter (iOS App) | [Git Repository](#)   **December 2024 – January 2025**
o Designed and developed an iOS app for converting fictional Middle-earth currencies using SwiftUI
o Created reusable UI components and implemented currency conversion logic using enums
o Integrated **TipKit** to provide interactive tooltips, enhancing user guidance and user experience.
o 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

o **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
o 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
o Technical Speaker: Delivered 5 conference talks on modern iOS Development reaching 2,000+ developers
o Mentorship: Led coding workshops for 50+ junior developers, with 80% reporting significant skill improvement at Swecha Open Source

EDUCATION

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