Veera Venkata Vamsi Pachipala

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience building secure, scalable applications and coding in C, C++, and Python. Pursuing an M.S. in Computer Science, with a strong foundation in debugging, optimizing code, and collaborating with diverse teams to meet rigorous requirements. Proven ability to deliver maintainable solutions while applying agile methodologies and industry best practices.

TECHNICAL SKILLS

- **Languages**: C, C++, JAVA, SQL, PL/SQL, Python, Dart, C#
- **Frontend Technologies**: React JS, Next JS, React Native, Flutter, TypeScript, JavaScript., Vue.js, HTML, CSS
- **Backend Technologies**: Node JS, Nest JS, Rest Api, Swagger UI, Microservices, Express
- **State Management**: Redux, Context API, React Query, Prisma
- **Databases**: Firebase, PostgreSQL, Oracle, DB2, SQL, MYSQL, NoSQL, MS Access, Mongo DB
- **CSS Frameworks**: Material UI, Material Design, Bootstrap, Tailwind CSS.
- **Devops**: Docker, AWS, CI/CD
- **Version Control**: GIT, Github, Bitbucket
- **Operating Systems**: Windows XP/NT/Server, Linux, Unix (AIX), MS-DOS, MacOS
- **Technical Expertise**: Debugging, Networking, Low-level Programming, Software Engineering

PROFESSIONAL EXPERIENCE

Atelia Software Inc   **Jul 2024 - Apr 2025**
Full Stack Developer   *Fremont*

Led end-to-end development of a scalable and secure digital healthcare platform that digitizes clinical interactions, streamlines data flow, and enhances diagnostic efficiency for both patients and providers.

- Developed a dynamic, responsive user interface using React.js, TypeScript, Material-UI, and React Query to ensure a smooth, cross-device experience.
- Engineered a high-performance, SEO-optimized landing page with Next.js and Tailwind CSS to boost search visibility and user engagement.
- Implemented an online appointment scheduling system with a real-time calendar using React and Node.js, improving consultation scheduling efficiency while integrating provider availability and automated reminders.
- Integrated secure telemedicine features using HIPAA-compliant video conferencing technologies and third-party SDKs, expanding access to remote consultations for chronic disease management and follow-up visits.
- Developed AI-assisted diagnostic tools by integrating machine learning models for triage and symptom checking, enhancing early disease detection and risk stratification.
- Built robust RESTful APIs and backend services with Nest.js and PostgreSQL for seamless EMR integration, ensuring compliance with HL7/FHIR standards for secure medical data exchange.
- Constructed modules for recording and visualizing vital signs, integrating Bluetooth-enabled devices for real-time monitoring, thereby supporting chronic condition management.
- Architected backend services using Nest.js (Node.js framework) and PostgreSQL to deliver secure REST APIs with role-based access control for clinicians, patients, and administrators.
- Containerized the application using Docker to enable scalable, isolated deployment environments and streamline CI/CD processes; applied knowledge of operating systems and multiprocessor debugging techniques using diagnostic tools to troubleshoot deployment issues effectively.

Eficens Systems   **Jun 2020 - Apr 2022**
Full Stack Developer   *Atlanta*

- Designed and developed a cloud-native, CRM-style platform to digitize internal HR operations, replacing manual record-keeping with a centralized, automated web application; incorporated system-level best practices to ensure robust integration across diverse operating environments.
- Streamlined employee lifecycle management, task allocation, payroll processing, and performance tracking through a user-centric interface with granular role-based access.
- Developed an intelligent dashboard and UI layer using React.js and Material UI, ensuring a modular, high-performance component-based design.
- Implemented responsive layouts with SCSS and HTML5 to optimize the user experience across desktop, tablet, and mobile devices.
- Managed state efficiently using Redux and integrated React Query for asynchronous data handling, delivering real-time updates and offline support for key modules.
- Built a RESTful API using Node.js to ensure scalable communication between the front end and databases, while integrating Firebase for authentication, real-time database sync, and secure cloud hosting; leveraged networking best practices to support reliable system-level connectivity.

- Automated HR workflows by developing CRM-style features for employee lifecycle management, project-based timesheet logging, and self-service portals, reducing manual intervention significantly.
- Implemented a notification system and reporting tools to streamline HR processes and improve data accessibility in CSV/PDF formats.
- Positioned the system for future scalability by containerizing deployment with Docker and establishing a CI/CD setup in GitLab.

Eficens Systems   **Jun 2019 - May 2020**
Mobile Application Developer   *Atlanta*

- Designed and developed a cross-platform mobile application using React Native to extend the capabilities of the company's internal Employee Management System.
- Enabled a seamless on-the-go experience for timesheets, payroll, placements, project assignments, and invoicing, thereby digitizing traditional HR processes and enhancing operational transparency.
- Built a single codebase targeting both Android and iOS platforms with React Native, leveraging component-driven architecture for efficiency and performance.
- Applied TypeScript to enforce type safety and scalable code structuring across application modules.
- Implemented Material Design principles to ensure a consistent and user-friendly mobile experience, collaborating closely with designers using Figma prototypes.
- Integrated React Native Navigation and Drawer Navigation to support intuitive screen transitions and role-based access.
- Managed mobile state using Redux and employed React Query for optimized asynchronous data fetching, enabling smooth real-time updates and background synchronization.
- Developed key feature modules for timesheets management, payroll and invoicing, and project dashboards, integrating offline support with automatic synchronization upon reconnection.
- Integrated Firebase-backed services for multi-method authentication, real-time data synchronization, and push notifications via Firebase Cloud Messaging, ensuring robust mobile data handling; utilized diagnostic tools for effective code debugging.
- Optimized performance through lazy loading, memoized components, and efficient data rendering techniques, ensuring a responsive and scalable mobile application experience.

EDUCATION & ACADEMIC PROJECTS

Kennesaw State University, Georgia, USA
Master of Science, Computer Science
- **GPA:** 3.87 / 4.0

Sasi Engineering College, Andhra Pradesh, India
Bachelor of Technology, Computer Science & Engineering
- **GPA:** 8.5 / 10.0

Core Traits & Strengths

- Hustle mindset with a strong sense of ownership
- Innate curiosity and a passion for solving real-world problems
- Lifelong learner with eagerness to explore new technologies
- Strong pride in building scalable, high-quality applications
- Excellent collaborative skills with a focus on continuous improvement
- Committed to growth and innovation, both personally and professionally