Hethiskarna Ravi
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EDUCATION

Santa Clara University   Santa Clara, CA
Master of Science in Computer Science and Engineering (STEM)   2024 - 2026
Courses: Mobile Application Development, Operating Systems, Software Engineering, Machine Learning, Advanced Web Programming
PSNA College of Engineering and Technology   Tamil Nadu, India
Bachelor of Engineering in Computer Science and Engineering   2020 - 2024
Courses: Data Structure, Design and Analysis of Algorithms, Computer Networks, Artificial Intelligence, Cloud Computing

TECHNICAL ABILITIES

Coding Languages: Java, Javascript, Dart, HTML, CSS, SQL, Typescript, Machine Learning, PHP, Python
Databases: MongoDB, Firebase, AWS S3, MySQL   **Tools and Libraries:** Figma, ExpressJS, ReactJS, React Native, Node.js, Flutter

EXPERIENCE

Vibesea   **California, United States**
Full Stack Developer   Jun 2024 – Present
- Spearheaded the development of a comprehensive lease and sublease booking application tailored for university students, utilizing **React Native** for crafting dynamic front-end interfaces and **TypeScript** for ensuring robust and scalable code architecture.
- Engineered backend solutions with **MongoDB** for efficient data storage and **AWS** for seamless deployment and management, enabling users to easily book apartments, thereby enhancing the overall user experience on the platform.
- Integrated real-time data synchronization and push notifications using **Firebase**, implemented secure user authentication with JWT and OAuth, and further optimized application performance with lazy loading, resulting in a responsive and secure application.

AgamWorks Tech Solutions Private Limited   **Tamil Nadu, India**
Software Engineer   Nov 2023 – Jul 2024
- Implemented front-end development for the hospital appointment booking application using **Flutter**. Enhanced user experience through advanced features such as real-time appointment scheduling, push notifications, and in-app messaging.
- Led the creation of a Flutter-based e-commerce application for a jewelry shop, utilizing **Node.js** and **TypeScript** for backend integration with **Firebase API** and **MongoDB**. Implemented secure payment processing and real-time inventory management ensuring seamless data handling and real-time updates. Incorporated advanced analytics and monitoring with Firebase Crashlytics and **Google Analytics**, providing valuable insights for continuous improvement and enhanced user experience.

VJH Software Private Limited   **Tamil Nadu, India**
Full-Stack Developer Intern   Jun 2022 – Dec 2022
- Developed and optimized Web applications, resulting in a 30% increase in user engagement and satisfaction for a real-time supermarket website, utilizing strong UI/UX skills with **HTML**, **CSS**, and **JavaScript**.
- Enhanced website performance by 20% through code optimization and resolution of complex database challenges, demonstrating expertise in **Web app development** and database management.

Sriyaditha Graphics and Universe   **Tamil Nadu, India**
Associate Software Engineer Intern   Jan 2021 – Nov 2021
- Contributed to the development of a vehicle parking management application by utilizing **PHP** within an **ASP.NET** environment and optimizing **SQL**-based database architecture, enhancing performance and user engagement.
- Implemented **XML** for design elements and leveraged **Java** and **JSON** for connectivity within the **Android Studio** environment, ensuring seamless integration and efficient communication within the application framework.

PROJECTS

FOODEVEN – Food Ordering Application:
- Developed a cross-platform food ordering app for the college canteen using Flutter and Firebase, improving the dining experience. and created an Admin website with responsive UI/UX with **HTML5**, **CSS3**, and **JavaScript**, enhancing the app's functionality.

Platform for Monitoring Police Officers:
- Developed police officer monitoring platform using NFC and GPS technology, enhancing accountability and response times. Implemented with **React Native** and **Node.js**, ensuring seamless deployment and boosting community safety.

Gym Buddy – Personalized Workout and Nutrition Advisor:
- Orchestrated the development of Gym Buddy, designing its front-end using Flutter and implementing the backend with **Node.js** (TypeScript) and **MongoDB**. Integrated seamlessly with APIs to provide personalized workout suggestions and nutritional guidance.
- Implemented advanced features such as real-time data synchronization, secure user authentication, and optimized database querying for enhanced performance and user experience.

Complaint Box Application:
- Developed a mobile application for students to report on college environmental issues. Implemented efficient communication methods and Leveraged **RESTful APIs** and Web-sockets for swift issue handling, optimizing operational efficiency and enhancing user experience.

LEADERSHIP AND INVOLVEMENT

- Led and empowered the Toastmasters Club, driving the improvement of public speaking skills through workshops and strategic initiatives, ultimately leading to enhanced communication abilities and substantial club growth.