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
Anna University (CGPA: 8.5) Tamil Nadu, India
Bachelor of Engineering in Computer Science and Engineering 2020 - 2024
Courses: Data Structures and Algorithms, Operating System, Computer Networks, Artificial Intelligence (AI), Cloud Computing

SKILLS

Languages: Java, Javascript, Dart, HTML, CSS, SQL, Typescript, Machine Learning, PHP, Python, C/C++, C#
Frontend Frameworks: React.JS, Flutter, React Native, Redux, HTML/HTML5, CSS/CSS3, Bootstrap, VueJS, Angular, NextJS
Backend Frameworks: Node.js, REST API, JSON, Express, ASP.NET
Databases and Cloud Platforms: MongoDB, Firebase, AWS (S3, EC2, Lambda), MySQL, Microsoft Azure, Docker
Development Tools & Version Control: Android Studio, Git, GitHub, Postman, Linux, Figma, Adobe, VS Code, Jenkins, Confluence, Jira
Soft Skills: Innovative, Cooperative, Consistency, Problem Solving, Solve Complex Problems, Determined, Time Management

EXPERIENCE

Vibesea **California, United States**
Lead Software Engineer Jun 2024 – Sep 2024
- Developed a real-time booking app with secure authentication **(JWT, OAuth)** and optimized performance for university students.
- Engineered backend solutions using **MongoDB**, **AWS**, and **Linux**, ensuring seamless deployment and data management.
- Integrated Firebase for real-time sync and notifications, enhancing responsiveness and user experience.

AgamWorks Tech Solutions Private Limited **Tamil Nadu, India**
Software Engineer Nov 2023 – Jul 2024
- Developed a hospital booking app using **Flutter** with real-time scheduling, push notifications, and in-app messaging.
- Built a jewelry e-commerce app with **Node.js, TypeScript, Firebase, and MongoDB**, enabling secure payments and real-time inventory management.
- Integrated **Firebase Crashlytics** and Google Analytics for advanced monitoring, driving continuous improvements and optimized user experience.

VJH Software Private Limited **Tamil Nadu, India**
Full-Stack Developer Intern Jun 2022 – Dec 2022
- Built a real-time supermarket website using **HTML**, **CSS**, and **JavaScript**, boosting user engagement by 30%.
- Optimized code and resolved database issues, improving website performance by 20%. Delivered a smooth and responsive user experience through effective **UI/UX design** and backend management.

Sriyaditha Graphics and Universe **Tamil Nadu, India**
Associate Software Engineer Jan 2021 – Nov 2021
- Developed a vehicle parking management app using **PHP**, **ASP.NET**, and optimized **SQL** databases for improved performance.
- Designed UI elements with XML and integrated backend connectivity using Java, JSON, and **Android Studio**.
- Ensured seamless communication across components, delivering a reliable and efficient application experience.

PROJECTS

Gym Buddy – Personalized Workout and Nutrition Advisor:
- Developed Gym Buddy, with a **Flutter** front-end and a Node.js (**TypeScript**) and **MongoDB** backend. Integrated APIs for personalized workout suggestions and nutritional guidance. Implemented real-time data synchronization, secure user authentication using **JWT** and OAuth, optimized database querying for enhanced performance.

FOODEVEN – Food Ordering Application:
- Developed a cross-platform food ordering app for the college canteen using **Flutter** and **Firebase**, including an admin app for analytics and updates with a responsive UI/UX, 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.

COVID-19 TRACKER – using REACT:
- Developed a dynamic COVID-19 tracker web application using **React**, integrating real-time data from multiple open **APIs**. Implemented key functionalities in **JavaScript**, enabling global case tracking with seamless user interaction.

LEADERSHIP AND INVOLVEMENT

- Won the award for a paper on ML/AI presented at YUGAM 2024.
- Finalist in the Smart India Hackathon 2024, showcasing innovative problem-solving skills.
- Led the Toastmasters Club, driving substantial growth through workshops that improved public speaking skills.
- Mentored the iMath Club, guiding members in mathematical exploration and development.
- Actively contribute as a nutrition advisor, leveraging analytical skills to support athletes in achieving their performance goals.
- Assist in teaching mobile app development using Flutter, sharing knowledge and practical skills with aspiring developers.
- Engage in software development projects at the Frugal Innovation Hub, applying innovative solutions to real-world challenges.