Hethiskarna Ravi

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EDUCATION

Santa Clara University (GPA: 3.5)   Santa Clara, CA
Master of Science in Computer Science and Engineering (STEM)   2024 - 2026
Courses: Computer Networks, Advanced Operating Systems, Artificial Intelligence, 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, Distributed Systems, API Design, Microservices, Data Warehouse, Cloud Computing, DBMS

EXPERIENCE

Frugal Innovation Hub   **California, United States**
Software Engineer   Oct 2024 – present
- Developing a full-stack project management web app using Vue.js for a dynamic frontend, Node.js with Express for a scalable backend, and MongoDB for efficient data storage, enabling streamlined ticketing, task tracking, and project lifecycle management.

Vibesea   **California, United States**
Lead Software Engineer   Jun 2024 – Sep 2024
- Developed a Flat 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
- Built a hospital appointment booking app using **Flutter** with real-time scheduling, push notifications, and in-app messaging.
- Developed a jewelry e-commerce app with **Node.js, TypeScript, Firebase, and MongoDB**, enabling secure payments and real-time inventory management.
- Assisted in building a chatbot using the **RAG** model and **Claude 2** on **AWS SageMaker** to support internal team queries and improve task automation.

VJH Software Private Limited   **Tamil Nadu, India**
Full-Stack Developer Intern   Jun 2022 – Dec 2022
- Engineered scalable APIs with **.NET** and **Kafka**, deployed on Kubernetes, optimizing firmware test execution for 100+ engineers and 5000+ daily tests.
- **Automated firmware metadata pipelines across 30+ repositories**, reducing manual input time by 60% and streamlining the deployment process.

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**.
- Developed an iOS directory app using **Swift/SwiftUI** to display office locations, including conference rooms and employee desks, for company offices in Bengaluru and India.

SKILLS

Languages: Java, Kotlin, 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, Azure, PostgreSQL, Docker, Kubernetes
Development Tools & Version Control: Android Studio, Git, GitHub, Postman, Linux, Figma, Adobe, VS Code, Jenkins, Confluence, Jira
Soft Skills: Innovative, Collaborative, Consistency, Problem Solving, Solve Complex Problems, Determined, Time Management

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:
- Established 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.

COVID-19 TRACKER – using REACT:
- Engineered a dynamic COVID-19 tracker web application with responsive web design 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.
- 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.