

VARUN HOSADURGA HARISH

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SUMMARY

Frontend Web Engineer with a focus on building pixel-perfect, high-performance interfaces that scale across devices. I specialize in translating design systems into architectures, and crafting interfaces that feel as fast and intentional as they look. Passionate about Web, AI-powered UX, and obsessing over the last 1% of detail most people overlook.

TECHNICAL SKILLS

Languages & Databases: JavaScript, TypeScript, HTML, CSS, Java, Python, SQL, MongoDB, FastAPI

Frameworks & Technologies: ReactJS, NodeJS, Redux, Context API, Tailwind CSS, GraphQL, REST API, Redis

Tools: Git, Jira, Webpack, Vite, NPM, Jest, Mocha, JSON, Postman, Jenkins, Docker, Kubernetes, CI/CD, AWS

Developer Tools: Quantum Metrics, ELK, Splunk, Swagger

WORK EXPERIENCE

Research Assistant | Stony Brook University

Jan 2025 - Present

- Designed a modular **React** based LLM medical assistant for clinicians to upload, query, and summarize diagnostic reports structured with **microfrontend** architecture for independently deployed modules through **ShadCN UI**
- Built a **RAG-based assistant** using **LangChain** and **Google Gemini API** to extract and summarize multimodal medical content with **90%+ accuracy**, enabling faster interpretation for clinicians and patients via natural language chat
- Deployed the application securely on **AWS** with JWT-based access control and a responsive UI optimized for desktop and mobile clinical workflows

Software Engineer | Accenture (AT&T)

Dec 2020 – Aug 2022

- Built and maintained AI chatbot interfaces in **React JS** and **NodeJS**, serving **150K+ daily users** with responsive, accessible UI components across **web** and **mobile**
- Collaborated with **UI/UX designers** to resolve cross-browser UI issues using React **DevTools**, **HTML**, **CSS** debugging, and design alignment improving visual consistency and user experience by **28%**
- Scaled chatbot **transactional MVP** flows from prototype to production, leading frontend development using modular React components using **JavaScript/TypeScript**; drove **\$180K ARR** impact
- Designed and delivered a modular dashboard UI from Figma using **Tailwind** and Chart.js, with **CRM-ready** components, improving stakeholder visibility into key KPIs and accelerating reporting workflows by 40% for PMs
- Drove **TDD** adoption using **Jest/Mocha**, achieving 90%+ test coverage and reducing production bugs by 40%
- Redesigned chatbot UI architecture to separate critical and non-critical components using **memoization** and dynamic imports, reducing initial render load by 30% and improving perceived **performance** on low-bandwidth devices
- Containerized and deployed the chatbot UI using **Docker** and **Kubernetes**, streamlining frontend delivery pipelines for production releases
- Boosted user retention by 12% by implementing **WCAG-compliant accessibility**, mobile responsiveness, and **Content Security Policy (CSP)** improvements across frontend surfaces

EDUCATION

M.S., Computer Engineering | Stony Brook University, Stony Brook

Aug 2022 – May 2025

B.E, Electronics and Communication Engineering | RNS Institute of Technology, Bangalore, India

Aug 2016 – Jul 2020

PROJECTS

API Architect – Visual API Builder | **HTML CSS, JavaScript, Tailwind, Open AI, React Flow**

- Developing a drag-and-drop interface to design and visualize **RESTful APIs** through dynamic component graphs
- Implemented context-driven forms, modal management, and live state preview to enhance UX for developers building backend **NodeJS** and **Java(v2)** routes visually

MovieSage | **Open AI, React, NodeJS, ExpressJS, MongoDB**

- Developed an **Open AI** based movie recommendation platform using **Node.js**, **Express.js**, **MongoDB** and **React**
- Integrated movie data via custom **HTTP REST APIs** and **Firebase** auth to enable seamless personalized browsing across devices. Delivered to 100+ active users across web and mobile applications.

CERTIFICATIONS AND ACHIEVEMENTS

Cloud Certification | AWS

Apr 2025

- Awarded Digital Badge for completing AWS Cloud Practitioner Essentials Certification

Meta Frontend Developer Certificate | Coursera

Jul 2024

- Completed Meta Front-End Developer Certificate on Coursera, covering React, accessibility, testing, and UI designs

Best Junior Employee | Accenture

Apr 2022

- Awarded Best Junior Employee for “Client Value Creation”