

Jayasoorya Jithendra

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PROFESSIONAL SUMMARY

Frontend Software Engineer with 3+ years of experience building accessible, high-performance web applications using TypeScript, React, and Vue. Specialized in component-based architecture, client-side state management, and rendering optimization. Proven track record in 0-to-1 environments, integrating generative AI applications, LLMs, and multi-agent workflows into scalable product architectures

EDUCATION

University at Buffalo (SUNY) | *Master of Science in Computer Science and Engineering* (Aug 2024 - Jan 2026) | GPA: 3.93/4
College of Engineering, Trivandrum | *BTech in Computer Science and Engineering* (Aug 2015 - July 2019) | GPA: 8/10

EXPERIENCE

Software Developer Mentor (Volunteer) | *Code the Dream* | February 2026 - Present

- Mentor students in a Full-Stack Development Practicum, primarily supporting React and modern web development projects
- Review and evaluate assignments and projects, providing technical feedback, guidance, and best practice recommendations

Fullstack Developer | *Spear Education - Arizona, USA* | May 2025 - August 2025 (Summer Internship)

- Developed React and TypeScript based web apps supporting subscription, assignment, and profile workflows, reducing navigation time by ~25%
- Refactored and optimized UI components for enhanced performance, accessibility, and design consistency, improving Lighthouse scores by 18%
- Implemented client-side state management and frontend-backend integrations for interactive team-management workflows, ensuring consistent UI state and responsive user interactions
- Designed and integrated scalable APIs for subscription and profile flows, ensuring efficient, secure, and structured data exchange across services
- Wrote and maintained unit and integration tests for React components to ensure UI reliability and prevent regression during feature releases
- Technologies: **React.js, TypeScript, JavaScript, HTML, Tailwind CSS, GraphQL, AWS Lambda**

Software Engineering Specialist | *Dassault Systèmes - Bangalore, India* | August 2023 - June 2024

- Enhanced and modernized 15+ enterprise-grade UI widgets, improving usability scores in internal QA reviews by 30%
- Led the migration from Vue 2 to Vue 3, defining component architecture and coding standards to improve scalability and maintainability
- Optimized client-side rendering, state management, and data-fetching behavior in API-driven dashboards, reducing analytics load time by 15%
- Partnered with backend engineers to design robust APIs and resolve integration issues, improving system reliability and overall platform stability
- Coordinated with cross-organizational teams, including external backend partners and client stakeholders, to align front-end implementation with product requirements and delivery timelines
- Technologies: **Vue 3, TypeScript, JavaScript, HTML, CSS, REST APIs**

Software Engineer 2 | *Synoriq R&D Pvt Ltd - Bangalore, India* | May 2022 - November 2022

- Led and mentored junior engineers, conducting code reviews to uphold best practices in performance, scalability, and maintainability
- Designed and integrated APIs for timezone and user profile features, ensuring reliable data flow and consistent API contracts across services
- Applied accessibility standards to enhance user experience and inclusivity, increasing compliance score from 68% to 92%
- Delivered new features and resolved high-priority issues in the LMS platform, improving stability, responsiveness, and overall performance
- Technologies: **React.js, JavaScript, HTML, CSS, REST APIs**

Software Development Engineer | *Siemens - Bangalore, India* | July 2019 - June 2020

- Maintained and enhanced Notifier, a cross-platform web and mobile application for real-time alerts and notifications
- Refined UI components and optimized data processing in Performance Insight, a factory monitoring and visualization tool
- Conducted source code reviews, implemented design optimizations, and developed unit tests to improve system reliability and maintainability
- Technologies: **React.js, JavaScript, HTML, CSS, REST APIs**

TECHNICAL SKILLS

- **Fullstack:** JavaScript, TypeScript, React.js, Vue 3, Next.js, Material UI (MUI), Node.js, HTML, CSS3, MySQL, AWS, REST APIs, GraphQL, Vitest, Redux
- **AI / ML:** Python, PyTorch, Scikit-Learn, TensorFlow, LLMs, Agentic AI, Pandas, JupyterLab, Seaborn, Data Analysis & Visualization, Computer Vision
- **Others:** Data Structures, Algorithms Analysis and Design, System Design, API Design, SDLC, Agile, Scrum, Adobe Photoshop, Version Control (Git)

AI & SOFTWARE PROJECTS

TradeSense - AI Agents Stock Research & Portfolio Planner | *Python, Gemini, Google ADK, AI Agents* |

- Developed a multi-agent AI system for automated stock research, risk analysis, and portfolio recommendation workflows
- Implemented a tool-enabled Research Agent using Gemini and google_search to gather grounded, real-time price and news data
- Built a Portfolio Planning Agent that generates structured buy/hold/avoid recommendations aligned with budget and risk tolerance
- Engineered agent orchestration, session continuity, observability logs, and evaluation using LLM-as-judge to ensure reliable outputs

Skin Cancer Detection Using Deep Learning | *Python, PyTorch, ResNet50, EfficientNet, DenseNet, Streamlit* |

- Trained and fine-tuned CNN architectures (ResNet50, EfficientNet, DenseNet) on 34K+ ISIC dermatoscopic images for lesion classification
- Applied transfer learning and data augmentation to improve generalization and recall by 10%
- Implemented explainable AI techniques (Grad-CAM, SHAP) to enhance model interpretability and build user trust
- Deployed the trained ensemble as an interactive Streamlit application for real-time predictions

ACHIEVEMENTS AND LEADERSHIP

- UB Bulls Launch pitching competition Audience Choice Award Winner
- Vice Chairman of IEEE CS Student Branch CET, 2016-2017
- Event Lead of IEEE Spark 2016, engaging 200+ participants at College of Engineering, Trivandrum