YASHWANTH KUMAR VANDANAPU

Senior Software Engineer – Front-End/FullStack (React, AI/Agent Workflows)

Email: yashwanth.vandanapu@gmail.com | Contact: 416-820-5970 | LinkedIn: [Yashwanth](#)

PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years of experience building enterprise-scale platforms using React, Next.js, Vue, TypeScript, and NX monorepos. Strong expertise integrating LLMs and agent-based automation directly into production UIs using OpenAI APIs, LangChain, embeddings, RAG, and schema-driven conversational workflows. Skilled with Python/ microservices, Terraform, Ansible, AWS, and CI/CD automation. Proven track record developing workflow-driven UIs, bot interaction layers, and certification-style platform tools. Deep focus on scalable architecture, accessibility, performance, and developer experience.

TECHNICAL PROFICIENCIES

Languages: JavaScript (ES6+), TypeScript, Python, HTML5, CSS3
Frameworks & Libraries: ReactJS, Next.js, VueJS, Angular, Redux, NX, Storybook
AI/LLM: OpenAI APIs, LangChain (tools, agents, retrieval, chains), embeddings, vector stores, function-calling, streaming UX
Infrastructure & DevOps: Terraform, Ansible, Docker, AWS (EC2, S3, Lambda), GitHub Actions, Jenkins
Backend: Node.js, Express, GraphQL, tRPC, REST APIs Databases: PostgreSQL, MongoDB, MySQL
Testing: Jest, React Testing Library, Cypress, Selenium Accessibility & UX: WCAG 2.1, AODA, NVDA, VoiceOver

PROFESSIONAL EXPERIENCE

SurveyMonkey, Canada – Senior Software Engineer *October 2023 – Present*

- Architected and built scalable React/Next.js modules in an NX monorepo powering enterprise-grade survey authoring and workflow features.
- Integrated OpenAI Assistants API and LangChain agents into internal tooling to automate routing logic, content generation, metadata extraction, and validation flows.
- Developed conversational and bot-driven UI components in React supporting streaming responses, tool calls, fallback chains, and dynamic multi-step workflows.
- Implemented Python-based LangChain pipelines for summarization, step validation, workflow suggestions, and internal agent automation.
- Collaborated with platform teams to deploy LLM microservices using Terraform and AWS, improving developer speed and environment stability.
- Re-engineered certification-style UI flows with schema-driven form generation, dynamic routing, and intelligent assistance powered by LLM tools.
- Optimized frontend performance and accessibility, delivering WCAG 2.1-compliant interfaces used globally.
- Mentored engineers on React patterns, LLM integration, and agent automation.

Canada Life Digital Hub, Canada – Application Developer *March 2023 – September 2023*

- Migrated financial workflow modules to Vue 3 using composables and Pinia, improving form reliability and performance.

- Built Python + LangChain utilities to summarize long policy documents, generate structured TFSA/RRSP input data, and automate advisor workflows.
- Developed schema-driven forms and automated validation for investments and retirement workflows.
- Created internal chat-style tools using OpenAI and embeddings for quick data lookup and guided user interactions.
- Integrated SQL and NoSQL stores to optimize load, caching, and form session recovery.

CITI Bank, Canada – Senior Software Engineer *August 2022 – March 2023*

- Rebuilt workflow dashboards in React with automated routing, validation checkpoints, and agent-support features.
- Integrated Python-based LLM utilities using LangChain for classification, summarization, and workflow audit insights.
- Enhanced Redux architecture for multi-step approval flows, increasing efficiency by 25%.
- Delivered secure API integrations and reporting modules using PostgreSQL and caching layers.

Telus, Canada – Frontend/Full Stack Developer *May 2021 – August 2022*

- Built micro-frontend React/Next.js modules for internal provisioning workflows and customer management systems.
- Developed Node.js/MongoDB services to support automation tooling and real-time operations dashboards.
- Implemented IaC using Terraform for environment provisioning and Ansible for configuration automation.
- Collaborated on workflow-driven UI patterns and form-heavy interaction layers.

FactSet, India – Software Engineer II *November 2020 – May 2021*

- Modernized UI from AngularJS to Vue/Angular hybrids with improved workflow navigation and performance.
- Automated environment configuration with Ansible and built AWS EC2 deployment pipelines.
- Improved accessibility and performance across global financial products.

Hughes Systique, India – Software Engineer *June 2019 – November 2020*

- Delivered React/Angular interfaces for workflow visualization, reporting, and automation.
- Built backend APIs using Node.js and Loopback, integrating MongoDB for analytics.

Kellton Tech Solutions, India – Software Engineer *February 2017 – June 2019*

- Developed healthcare workflow modules using Vue/Angular with form-heavy UI flows.
- Managed AWS EC2 deployments with Nginx tuning for high-performance delivery.

LEADERSHIP & METHODOLOGY

- Mentored teams on React architecture, LLM/agent integration, workflow design, and scalable systems.
- Practiced Agile/Scrum across globally distributed teams.
- Built CI/CD automation using GitHub Actions, Terraform, and custom deployment pipelines.