Surya Vamshika Chalapalli

Senior Engineer – Full Stack (Level 3) | React · TypeScript · Next.js · Node.js · AI Agent Platforms
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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 5+ years building SaaS products with React, TypeScript, Node.js and PostgreSQL. Currently building integrations, retrieval-augmented generation (RAG) and agent-configuration features for Mayavi, a multi-tenant AI agent and voice automation platform live with two customers. Previously led technical delivery of an HRMS used by 200 employees that cut a week-long payroll process to hours.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), Redux Toolkit, TanStack Query, Material UI, Tailwind CSS, Vue.js
Backend: Node.js, Express.js, Fastify, REST APIs, microservices, WebSockets, cron-based workflows
Databases: PostgreSQL (Row-Level Security), MongoDB, Supabase, Redis
AI & GenAI: RAG, vector search, OpenAI APIs, AI agent and assistant platforms, AI-assisted development (Codex in VS Code, with code review and verification)
Auth & Security: OAuth 2.0, JWT, Google login (SSO), RBAC, webhook signature verification, encrypted credentials
Integrations: Slack, SendGrid, Shopify, Cal.com, Stripe
DevOps & Testing: Docker, Docker Compose, Jenkins CI/CD, Git, GitHub, Bitbucket, Linux, Jest

PROFESSIONAL EXPERIENCE

Incredible Visibility — Kerala, India
Mar 2021 – Present

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Mayavi – AI Agent & Voice Automation Platform | Senior Full Stack Engineer May 2026 – Present

- Build full-stack features for a multi-tenant AI agent platform (React, TypeScript, Node.js, Fastify, PostgreSQL, Supabase, Redux Toolkit, TanStack Query); Slack, SendGrid, Shopify and Cal.com integrations are live in production with two customers.
- Built Assistant and Agent configuration workflows: model and voice settings, RAG-based knowledge retrieval, tool configuration, execution limits and publish-time validation; added vector search to Shopify product search.
- Built Slack and SendGrid channel integrations: Slack OAuth with request-signature validation, replay protection and bring-your-own-bot support; SendGrid inbound routing with thread-aware conversations and automated agent replies.
- Expanded the Shopify integration: multiple stores per organization, per-assistant store selection, cursor-based pagination, refund idempotency, catalog sync and abandoned-checkout recovery across messaging and voice channels.
- Implemented multi-tenant security: organization-scoped access control, PostgreSQL Row-Level Security, immutable audit logging, encrypted credentials and secure webhook verification.
- Built real-time chat over WebSockets with live token-usage updates; contributed to voice-call analytics (call-level metrics and conversation tracking).
- Built responsive React/TypeScript interfaces for Agents, Assistants, Automation Builder, Tool Creation, Credentials, Billing, Team, Settings and an Integrations hub showing connection health and usage, plus the WhatsApp channel configuration UI.
- Built Cal.com scheduling (availability discovery, timezone handling, retry-safe booking); currently building Zoho CRM call logging. Improved reliability with automated backend tests (Jest), database migrations, concurrency safeguards and code-review fixes.

HRMTrack – Enterprise HRMS | Senior Full Stack Engineer Jun 2023 – Jun 2026

- Led technical execution and full-stack development of a configurable, multi-tenant HRMS (Node.js, Express, React, PostgreSQL) used by all 200 employees, shipping 7+ modules: employee lifecycle, onboarding, attendance, leave, payroll, documents and line-manager transfers.
- Replaced a manual Excel-based payroll process that took HR about a week with a live payroll module (salary structures, attendance-based calculations, loss of pay, PF/ESI/TDS deductions, reimbursements, approvals and payslips) that completes in hours.
- Automated attendance (daily cron) and leave (monthly accruals, yearly policy renewal) with scheduled jobs; wrote Jest test suites for Leave, Payroll and Attendance, including the cron workflows.
- Split the platform into Docker microservices (Employee, Onboarding, Leave, Attendance, Payroll) for independent deployment, with Jenkins CI/CD pipelines.
- Built onboarding workflows (task assignment, candidate invitations, mandatory document uploads, verification, approvals, email notifications) and auditable line-manager transfer workflows.
- Secured the system with OAuth 2.0, JWT and role-based access (Tenant Admin, HR, Manager, Employee); improved API performance by about 25%; reviewed code and mentored junior engineers.

HelloLeads – Visitor Analytics & Lead Tracking | Backend Engineer Mar 2021 – Jun 2023

- Built REST APIs and analytics pipelines (Node.js, Express, MongoDB) behind reporting dashboards for 6 customers, storing 200+ leads per day.
- Developed cron workflows running every 12 hours for visitor scoring and reporting aggregation.
- Owned Stripe subscription billing end to end: webhooks, plan management and payment lifecycle automation.
- Built internal admin dashboards in Vue.js and Tailwind CSS for monitoring, lead funnel analysis and billing operations.
- Optimized MongoDB queries and aggregation pipelines, cutting high-traffic query latency by about 30%.

Career break and upskilling Jan 2019 – Feb 2021

- Planned break for family responsibilities; built personal full-stack projects with Node.js, React and REST APIs.

Programmer Analyst (Contract) — Walmart Jun 2018 – Dec 2018

- Built Node.js APIs integrating internal enterprise systems with the OneOps cloud platform, secured with OAuth 2.0.
- Developed operational tools and supported enterprise migration workflows and production support.

Freelance Backend Developer 2016 – 2018

- Built Node.js/Express backends for client websites through a consultancy and independent projects.

PROJECTS

Operentiq – AI Operational Intelligence Platform (personal project, live MVP) | operentiq.com

- Designing and building an AI support-operations platform end to end (Next.js, React, TypeScript, Tailwind CSS, Supabase/PostgreSQL), after interviewing operations and engineering teams about support workflows and resolution times.
- Built a Knowledge Base and AI Assistant that answers from an organization's own data and declines out-of-scope questions instead of fabricating answers; adding RAG-based retrieval (in progress).
- Added incident intelligence (customer history, similar-incident patterns, SOP guidance), role-aware access with Supabase Auth, dashboards and email workflows; deployed to production.

EDUCATION

M.S. Computer & Information Sciences, Kent State University, Ohio, USA 2016

B.Tech Computer Science & Engineering, Guru Nanak Institute of Technology, Hyderabad 2014

CERTIFICATIONS

McKinsey Forward Program; Claude 101 and Claude AI in Action (Anthropic)