

Summary

Full-stack engineer with 2+ years building **AI-integrated SaaS platforms** from scratch. Experienced in **React, Next.js, Node.js, TypeScript**, and **AWS**; delivered 2 SaaS platforms from scratch with direct client ownership and multi-provider AI integration.

Employment

Full-Stack Engineer

Webosmotic PVT LTD

July 2024 – Present

- Led full-stack development of **Guidy**, a **WCAG** web accessibility SaaS tool – built a browser widget (React injection script, iframe communication via postMessages) and a **Next.js** dashboard with Stripe billing, team management, and internationalization (EN/JA); deployed to **50+ client websites**.
- Patched **axe-core** to implement 10+ custom WCAG accessibility rules (ARIA, color-contrast, form labels, section headings, CAPTCHA alternatives); integrated **Gemini AI** and **Puppeteer** to auto-suggest fixes for failed elements.
- Built an AI voice assistant in the widget with **Deepgram STT**, **OpenAI TTS**, page navigation, AI auto-form fill, face auth via **MediaPipe**, head-eye gesture navigation, and sign language detection.
- Managed **AWS** deployments (EC2, S3, Lambda, ALB) and a **BullMQ/Redis** queue server for background accessibility scans; set up **CI/CD** with AWS CodeDeploy; resolved **100+ QA-reported bugs** across production releases with regular client demos and feedback cycles.
- Built **Custama** (AI chatbot SaaS) from scratch with direct client communication – architected a **Node.js/Express + React** multi-repo platform with a zero-dependency embeddable widget, trigger-based workflow automation, knowledge base ingestion (PDF/DOCX/sitemap), **Socket.io** real-time chat, and omnichannel ticketing with **Gmail OAuth** and **SendGrid** webhooks.

Frontend Developer Intern

Webosmotic PVT LTD

Jan 2024 – July 2024

- Built production features for **Coables** (therapy booking platform) using **React.js, TypeScript**, and **Redux Toolkit** – session management, admin dashboard, therapist onboarding, **VideoSDK** integration, and PDF notes via pdfjs.
- Trained in **React.js** hooks, **RTK Query**, **Node.js/Express**, and **MongoDB**; delivered training projects including a social feed app with real-time socket updates and infinite scroll.

Education

Navsari, Gujarat

S S Agrawal | VNSGU**July 2019 – (May 2022)**

BCA (Bachelor of Computer Applications)

CGPA: 8.85

Navsari, Gujarat

S S Agrawal | GTU**July 2022 – (May 2024)**

MCA (Master of Computer Applications)

CGPA: 8.85

Projects

Braoza (Guidy) – WCAG Accessibility SaaS Platform – staging.braoza.com

Next.js 14, React, Node.js, MongoDB, Redis, BullMQ, Socket.io, AWS (EC2/S3/CloudFront/CodeDeploy/Rekognition), Stripe, OpenAI, Gemini, Deepgram, MediaPipe, Puppeteer, axe-core

- Designed a production microservice architecture across 4 independent services (dashboard, widget, scanning API, queue processor) orchestrated via REST, **BullMQ/Redis** job queues, and **Socket.io**.
- Engineered an embeddable accessibility widget (**React + Vite**) deployed to **S3/CloudFront** with code obfuscation, SRI hashing, and real-time DOM remediation via postMessage bridge; integrated 4 AI providers (**OpenAI, Gemini, Deepgram, AWS Rekognition**) for voice navigation, alt-text generation, speech transcription, and facial auth.
- Built a custom WCAG 2.1 rule engine (50+ rules) with **Puppeteer + axe-core**, automated weekly cron scans, and a **MediaPipe** computer vision module for hands-free head gesture and sign language navigation; full EN/JP localization with Japanese morphological analysis (**Kuroshiro/Kuromoji**).

Custama (Wokkey) – AI Chatbot SaaS Platform – staging.custama.com

Node.js, Express, TypeScript, React, Redux Toolkit (RTK Query), MongoDB, Socket.io, AWS S3, SendGrid, Google OAuth 2.0, LINE API, i18next

- Built a zero-dependency vanilla JS injector widget (cross-origin **postMessage** iframe bridge, production-obfuscated, server-driven theming) and a trigger-based workflow automation engine supporting multi-step AI conversations, external API calls, and variable interpolation.
- Implemented a knowledge base ingestion pipeline (PDF, DOCX, CSV, website sitemaps) processed by a Python AI microservice; built omnichannel support ticketing with **Gmail OAuth 2.0** integration and **SendGrid** email-to-ticket webhooks; full EN/JP i18n across backend and frontend.

Technical Skills

- Languages:** Javascript/HTML/CSS, Python, GoLang, C++, SQL, Bash
- Frameworks and Libraries:** Node.js, React.js, Next.js, Express.js, Redux Toolkit, TypeScript, Vite, Socket.io
- Tools:** Git, Docker, AWS (EC2, S3, CodeDeploy), REST API, CI/CD, Agile/Scrum, JWT
- Databases:** MongoDB, MySQL, PostgreSQL, Redis