

SOUNAK DAS

Senior Software Engineer II

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PROFESSIONAL SUMMARY

Senior Software Engineer II at Vitra.ai with 6+ years of experience building production web applications and AI-driven products end to end — React and Next.js on the front end, NestJS and Node.js on the back end, running on AWS. Promoted three times in five years, from intern to Senior Software Engineer II, and now build Universe, the company's flagship translation platform — image and document translation through to the credit, billing, and job-orchestration systems behind it. Also shipped a consumer campaign that served over 300,000 users at a failure rate below 1%. Outside of work I ship products end to end: a live web app, a published Chrome extension, three Tauri desktop apps, a Figma plugin, and 10 open-source npm packages with 4,800+ downloads. AWS Certified Cloud Practitioner.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Rust, Java, C++, C, SQL

Frontend: Next.js, React, Angular, Ionic, Three.js, TailwindCSS, shadcn/ui, Zustand, Vite

Backend: NestJS, Node.js, Express.js, Flask, REST APIs, WebSockets, Netflix Conductor, background workers

Desktop and Browser: Tauri 2, Chrome Extension APIs, Figma Plugin API, Web Audio API, Canvas

Databases: PostgreSQL, MySQL, MongoDB, Redis, Firebase, Supabase

AWS: Lambda, EC2, S3, CloudFront, DynamoDB — AWS Certified Cloud Practitioner

Cloud and Infrastructure: Google Cloud Platform, Azure, Cloudflare, Docker, PM2, SSL/TLS automation

Monitoring and Automation: Grafana, Prometheus, Puppeteer, Crawlee

Tools and Practices: Git, Postman, CI/CD, code review, technical mentoring

PROFESSIONAL EXPERIENCE

Vitra.ai — Bengaluru, Karnataka, India

Senior Software Engineer II

April 2025 – Present

- Build Universe, Vitra.ai's flagship translation platform, owning image translation end to end across JPG, PNG, and other raster formats, together with the editor that lets users correct and refine translated output in place.
- Extended the platform beyond images into document translation across multiple file formats, covering text extraction, translation, and reassembly.
- Architected asynchronous job processing on Netflix Conductor with Redis-backed queues and a worker pool, so long-running translation and image-generation jobs run reliably under load.
- Built the customer-facing credit and billing system that meters platform usage, and an audit log recording user and system actions across the product for traceability.
- Built the Playground, an interactive surface for experimenting with translation and generation, and a chat-driven image creation system.
- Shipped marketplace plugins that bring Vitra.ai translation into the tools customers already work in — Adobe Photoshop, Microsoft Office, and Figma.
- Mentor junior engineers and interns through code review and pairing, and set the conventions the team follows for API design and service structure.

Senior Software Engineer I

April 2024 – March 2025

- Built and shipped the Mahindra face-augmentation campaign, where a user submitted a selfie and a short form and received a personalized 30-second stunt video in under a minute; scaled it to over 300,000 participants across India with a video-generation failure rate below 1%.
- Designed an automated SSL/TLS certificate manager that handles domain verification, validation, and issuance in roughly 10 seconds, removing manual certificate renewal for every customer domain on the platform.
- Built a Chrome extension that translates any website in place, with separate View and Edit modes, search / replace

/ replace-all editing, and page-to-page navigation, so non-technical users can refine machine translations without touching code.

- Instrumented platform services with Grafana and Prometheus to track throughput and failure rates, and used Puppeteer and Crawllee for automated content extraction across customer sites.

Software Engineer

August 2023 – March 2024

- Built Translate.website, a web application that translates entire sites into multiple languages with extensive per-string customization, letting users review and refine every translation before it goes live.
- Developed a Zoom meeting bot that joins calls through the Meeting SDK, captures per-participant raw audio in real time, detects the spoken language, and translates it live; built with Next.js, NestJS, Docker, and ngrok.
- Contributed to the internal project-management and billing systems used company-wide, covering both the data model and the operator-facing interface.
- Promoted to Senior Software Engineer within eight months.

Software Development Intern

August 2021 – August 2023

- Researched and developed Vitra.ai's internal Universe product and shipped two successful production releases.
- Prototyped R&D projects exploring translation and media-processing capabilities, several of which fed into the company's product line.

Kuldeep Websoft Pvt. Ltd. — Remote, India

Software Engineer Intern

February 2020 – June 2021

- Built a school management and inventory management web application using Angular and Express.js, along with a companion Ionic mobile app.
- Implemented a push-notification service and offline support so field users could keep working without a stable connection.
- Worked with Firebase for real-time data storage and message delivery.

OPEN SOURCE

10 packages published under the sounakdas npm scope | 4,800+ total downloads | MIT licensed, TypeScript-first, zero-dependency where possible | npm.sounakdas.in

- **termiwatch** — zero-config terminal dashboard for Node.js: CPU, memory, event loop, HTTP metrics.
- **git-vision** — CLI that analyzes Git history for risky files, churn hotspots, and knowledge silos.
- **ghostbug** — zero-config browser SDK that auto-collects bug context and debugging breadcrumbs.
- **dev-log-monitor** — local log diagnostics for NestJS, Express, and Node.js with real-time UI.
- **quickfuzz** — zero-dependency fuzzy search for JavaScript and TypeScript; powers Hatch in production.
- **smart-masonry-grid** — virtualized, zero-dependency masonry grid for responsive layouts.
- **motionchart** — animated React chart library for presentation-first data storytelling.
- **rgb-curve** — lightweight RGB curve editor for React, in the style of Lightroom colour grading.
- **instaskeleton** — ultra-light React skeleton loader with JSX inference and shimmer animations.
- **logpaint** — lightweight colored logger for Node.js with a configure-once, log-everywhere API.

PRODUCTS AND PROJECTS

AudioFrame — Browser-Based Audio Visualizer | audioframe.app

Live | TypeScript, Web Audio API, Canvas

- Real-time, beat-reactive visualizer with seven render styles, driven by a bass-frequency envelope follower that scales the visuals to the track.
- Exports transparent-alpha WebM and MP4 at 4K and 60fps in 16:9, 1:1, and 9:16, so the output drops straight onto a timeline in any video editor.
- Runs entirely client-side — no installs, accounts, servers, or telemetry.

Hatch — Cmd+K Command Palette for the Browser | [Chrome Web Store](#)

Live | TypeScript, esbuild, Chrome Extension APIs, Shadow DOM

- Universal command palette with 80+ commands: fuzzy tab switching, bookmark and history search, text snippets with dynamic variables, aliases, clipboard history, and developer tools.
- Opens in under 50 ms from a framework-free ~29 KB bundle, rendered in a closed Shadow DOM so it never collides with host-page styles.
- Fuzzy matching is powered by quickfuzz, my own npm package, running in a published product.

Vecto — AI-Powered SVG Generation and Editing | macOS and Windows desktop

Tauri 2, Rust, React 18, TypeScript, Zustand, Claude API

- Generates production-ready SVG from a plain-text prompt, then opens any local .svg for direct editing.
- Full vector editor: layer tree with visibility and lock toggles, live attribute editing, multi-select with bounding-box handles, pan and zoom, and 100-step undo/redo.

Grove — Multi-Repository Git Client | macOS desktop

Tauri 2, Rust, React 19, TypeScript, Tailwind CSS v4, shadcn/ui

- Keeps every local repository in a single view — branch, change counts, ahead/behind state, and last commit — with dirty repos sorted to the top.
- Stage, commit, push, branch, and resolve conflicts against syntax-highlighted word-level diffs without touching a terminal; delegates to the system git binary so SSH keys, credentials, and hooks work unchanged.

GitPulse — Engineering Contribution Analytics | Cross-platform desktop

Tauri 2, Rust (git2, keyring), React 18, TypeScript, Recharts

- Pulls commit and merge-request data from GitLab and GitHub into per-member, per-project, per-period analytics: contribution heatmaps, time-to-merge percentiles, cycle-time breakdown, and PR-size distribution.
- Surfaces trend alerts for velocity drops, bus-factor risk, and contributors going quiet.
- Local-first by design: tokens held in the OS keychain, strict CSP on the webview, no telemetry, and formula-injection-safe CSV export.

FigWind — Figma to Tailwind Code Generator | Figma plugin

TypeScript, Figma Plugin API, Tailwind CSS v4

- Converts any selected Figma frame or component into production-ready TSX or HTML with mapped Tailwind utility classes, regenerating live as the selection changes.
- Handles flexbox layout, gap, padding, and sizing, and detects image fills to emit real img tags.

EDUCATION

Master of Science (M.Sc.), Computer Science — Grade A

August 2021 – July 2023

Acharya Prafulla Chandra College, West Bengal, India

Bachelor of Science (B.Sc.), Computer Science

2018 – 2021

Acharya Prafulla Chandra College, West Bengal, India

CERTIFICATIONS

AWS Certified Cloud Practitioner

Issued August 2025 | Valid through August 2028

Amazon Web Services (AWS)

HONORS AND AWARDS

Winner, FutureHack 3.0 Hackathon — Vitra.ai

March 2024

First place for Bhasha Sarathi, an offline real-time speech translation app built in 40 hours: instant translation with no internet connection, fitted into a 46 MB build with sub-second model load.

GenAI Hackathon — Airtribe x Pine Labs

June 2025

Certificate of participation in the Airtribe and Pine Labs online generative-AI hackathon.