

# Sayantan Samanta

Dedicated and result-driven Frontend Engineer with 3.2 years of experience building innovative and user-friendly web applications. Skilled in modern frameworks and optimization techniques to deliver seamless digital experiences. Seeking a dynamic role to contribute expertise and drive impactful solutions.

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## SKILLS

HTML/CSS   JavaScript/TypeScript/Python   React/Vue   Redux/RTK/Zustand/React Query   Next.js/Nuxt   Node.js   Nest.js/FastAPI/Flask   REST/GraphQL  
BullMQ(Message Queue)   PostgreSQL/MongoDB/Redis   GCP(GCS, PubSub, Cloud Run, Cloud Task)   AI Tools (Cursor, Browser Agents, Assembly AI, NotebookLM)

## EXPERIENCE

### Hyresnap Frontend Engineer

May 2023 — Present

Bengaluru, Karnataka

- Revamped an end-to-end payment system using **Stripe's SDK** to carry out recurring product subscriptions for international customers.
- Designed a comprehensive transcription service tailored for proctored interview's reports with the help of a 3rd-party tool called **Assembly AI**.
- Built a scalable image upload system from scratch using **Next.js, Pillow, Flask and GCS**, that allows users to upload their avatars using a cropper tool.
- Integrated Razorpay payments for credit transactions for a user-centric mock interview service catering to the Indian B2C tech market.
- Collaborated closely with the Tech Lead to **enhance the efficiency of a MongoDB query, mitigating CPU spikes** and enhancing system performance.
- Building a 0 → 1 B2B SaaS, AI Agent that automates job platform workflows, with a backend powered by **FastAPI** and **MongoDB (PyMongo)** implemented strict type safety and validation using **Pydantic**, enabling robust API design, modular services.
- Designed and implemented a candidate recommendation system, including secure authentication (JWT flow), end-to-end APIs using **FastAPI**, PostgreSQL and a multi-tenant internal dashboard with Next.js, shadcn.ui and tailwindcss, owned the **design system** and optimized for Core Web Vitals (**CLS**).
- Delivered high-impact UI components for recruiter-copilot platform including Diff Checker, Boolean Search Builder, and Nested Pagination, improving recruiter workflows and cutting API latency from **5s to 200ms** using performance engineering best practices.
- Implemented a role-driven candidate approval system with permissioned workflows(submission, rejection, approval) and async processing of candidate's profile using **Gemini LLM (Gemini 2.5 flash model)**, ATS records, and recruiter notes using **FastAPI, Next.js, TanStack Query, and Google Cloud Tasks**.
- Optimized the Interview Autoscheduling algorithm, resulting in a reduction in workload for the Operations team.
- **Improved resume building experience** with page breaks and accurate PDF previews using React, Browser APIs, and Puppeteer.
- Spearheaded the redesign of interviewer report submission and candidate report processes, introducing admin-side feature flags and AI-powered summaries using **Gemini LLM (Gemini 2.5 pro preview model)**, **reducing operational workload and bolstering security** using React, TypeScript, Zod, RTK Query, Radix UI and React Hook Form to deliver a seamless and efficient client experience.
- Developed a B2B front-end for an ATS-friendly Resume Builder, integrating a **Resume Reviewing Tool** and comprehensive internal dashboards
- Enhanced the performance of several IM REST endpoints by **10-20% by offloading** time-consuming async tasks(slack messages, emails) to Cloud Tasks.
- Collaborated with the Marketing team to implement programmatic SEO strategies, enhancing search engine visibility and driving organic traffic growth.
- Built a resume analyzer tool using the **Gemini LLM (Gemini 2.5 flash model)** to assess candidate fit based on jds, **reducing recruiter workload**.

### Hoggy Software Engineer(Frontend)

May 2022 — November 2022

Bengaluru, Karnataka

- Primarily worked on user-facing features, optimized them, and sent them to production.
- Integrated business analytics tools such as **MoEngage** and **MixPanel** with Next.js to **enhance user tracking**.
- Contributed to the Creator tool's gallery module to upload well-optimised media using **Next.js, Redux, React-query**.
- Contributed in Hard-Typing the codebase, which resulted in a **50% reduction in runtime bugs**.
- Wrote unit test cases for Go APIs while migrating from Monolithic to Microservices infrastructure.
- Wrote a CI script for vercel preview deployments prior to moving into production.

### Codemancers / Strive Frontend Engineer Intern

November 2020 — December 2021

Remote, Kolkata

- Contributed to an ongoing OpenVPN profile management system by following a TDD approach using **React, TypeScript, RTL, and Jest**.
- Built the platform's dashboard using Next.js and Tailwindcss, integrating CRUD operations on **AWS DynamoDB**.

## PROJECTS

### Personal Projects

#### Upshot.app [2024 - Present] (React, Redux, TypeScript, Node(Express), GraphQL, MongoDB, Vite, SSE, LLMs)

A platform for creators to develop their products while transparently sharing the behind-the-scenes process, embracing the 'Build in Public' philosophy.

#### Deep Lip Reading [2022] (React, TypeScript, Vite, Web Sockets, Python, Flask)

Built an end-to-end application that has options to capture pictures based on a timer or a single click to detect user lip movement to predict words.

#### Build-Physician [2025 - Present] (React, TypeScript, Python, Flask, Mongo, Webpack, LLMs)

Webpack analysis tool that helps developers diagnose and optimize their frontend bundle with the help of a plugin, AI-driven recommendations to improve perf.

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## PROJECTS

### Open Source Contributions

[Next Auth](#) [2021] Fixed a bug for this OSS authentication library by correcting auth state of client-session api.

[Layer 5](#) [2021] Improved UX issue of a community website by adding delayed mount and unmount animation of the scroll to top button.

### Mini Projects

[Debounced Google Search](#) [2022] (React, TypeScript) Debounced autocomplete functionality mimicking Google Search.

[Ply](#) [2025] (Vue/Nuxt, TypeScript, Playwright, Gemini(flash 2.5), StageHand(Agent)) AI-powered job match assistant.

[Covlive](#) [2020] (React, SCSS, Context Api, Mapbox, Apex Charts) Covid Case tracking app providing accurate statistical data and rising cases

### Blogs

[xyz.com + Enter = ⚡ But How?](#) [2023] More than just painting frames on your browser.

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## EDUCATION

### B.Tech Information Technology

July 2018 — 2022      Netaji Subhash Engineering College (**NSEC**)      **8.5** (CGPA)

### ISC - Class 12th

July 2015 — 2017      The Modern Academy (**TMA**)      **71.5** (PERCENTAGE)

### ICSE - Class 10th

July 2002 — 2015      Ram Mohan Mission High School (**RMMHS**)      **75.0** (PERCENTAGE)