

Aayush Bisen

Software Engineer

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TECHNICAL SKILLS

Languages : JavaScript, TypeScript, Python
Frontend : React.js, Next.js, Material UI, Redux Toolkit, HandleBars, Puppeteer
Backend : Node.js, Express.js, FastAPI, MongoDB, Appwrite
DevOps : Docker, Loki, Grafana, Ansible, Azure

EXPERIENCE

Software Engineer

Health Vectors

July 2021 – Present

Bengaluru, Karnataka

PDF Digitization Tool

- **Leading** the project to facilitate integration of several laboratory PDFs, generating over **100k+** smart health reports. till date and increasing revenue by enabling data integration from labs lacking API access to their medical data.
- Achieved a **35% reduction** in API response times by successfully migrating from **Flask** to **FastAPI**.
- Integrated LLMs (**OpenAI APIs**) for advanced content extraction, and employed **MongoDB** and **Azure** for robust data storage and retrieval.

B2C Health App

- **Designed** an engaging questionnaire enabling users to share their daily habits and physical characteristics, which led to a **30% boost** in **user engagement** through tailored **health insights**.
- Integrated **OTP authentication** with **Twilio** to enhance security, achieving an **80%** success rate in user verification and enabling faster user registration.
- Implemented **Plausible Analytics** to track user behavior, providing actionable insights that drove product updates and resulted in a **25%** increase in **feature utilization**.
- Employed **Next.js** with **Redux** for a scalable frontend architecture, ensuring quick load times, while using **TypeScript** with **Express** and **MongoDB** for a robust backend.

Diagnostic Lab Dashboard

- **Initiated** the frontend architecture from scratch, adhering to industry best practices for scalability and maintainability. This approach resulted in a **60% reduction** in load times. This streamlined process improved report submission speed by **30%**, enhancing overall user satisfaction.
- **Designed** and implemented the **Maker Checker** application empowering users to **validate and rectify** errors in digitized PDF blood reports. This initiative decreased validation time by **25%**, increasing production support capacity by **30%** and enhancing overall operational efficiency.
- Utilized a technology stack of **React.js**, **Material UI**, and **React Hook Form** to develop and optimize the application.

Smart Health Report Generator

- **Enhanced** code efficiency and maintainability by implementing **reusable partials** with Handlebars, reducing redundant code by **30%**.
- **Scaled** the project to handle an average of **4,000+** daily requests, resulting in the generation of over **1.7 million** total **smart health reports** to date.
- Leveraged a tech stack of **Express**, **Handlebars**, **Puppeteer** and modern JavaScript syntax (**ES6**).

EDUCATION

Bachelor of Technology in Computer Science

Shri Shankaracharya Group of Institutions

2017 – 2021

Bhilai, Chhattisgarh, India