



Sumanta Kabiraj Full Stack Developer

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👤 PROFILE

Full Stack Developer with a strong focus on AI-powered, real-time healthcare applications. I specialize in building scalable systems using React, Next.js, Node.js, and databases like MongoDB and PostgreSQL. With hands-on experience in GenAI, I've developed intelligent voice/chat interfaces, automated consult notes, and integrated EHR systems. Skilled in secure authentication (Azure B2C, Google, Microsoft) and backend automation using Go, Python, and serverless functions. I'm driven by continuous learning, clean architecture, and building tech that makes a difference.

📁 PROFESSIONAL EXPERIENCE

BexCode Services - IT Technology

02/2023 - present | Remote

Full Stack Developer | Team Lead

Led the end-to-end development of advanced healthcare and telehealth platforms, integrating real-time features, AI, and complex EHR workflows.

- Implemented **AI-powered consult note generation** from patient-provider conversations, enhancing documentation efficiency.
- Built full-stack solutions using **Next.js, Angular, React.js, Node.js**, and **React Native**, with scalable backends on **MongoDB, PostgreSQL**, and **Redis**.
- Developed real-time features including **chat, appointment scheduling**, and **consultation management**.
- Integrated **DoseSpot EHR API, eFax, eRx**, and **OAuth2.0** to ensure compliant and secure healthcare operations.
- Managed complex billing with **Stripe, PayPal, NMI, Authorize.net** , and **Recurly** for subscription and per-use models.
- Built dynamic **insurance management** and **questionnaire systems**, tailored to patient workflows.
- Automated background jobs and reminders with **cron management**, improving reliability and task scheduling.
- Led a cross-functional team and deployed scalable services using **AWS Lambda**.

Tata Consultancy Services

Assistant Systems Engineer

02/2021 - 11/2022

Bangalore, India

- Developed and maintained backend services using **Node.js** and **Express.js**, optimizing performance for high-throughput systems.
- Implemented **WebSocket** communication with **Socket.io** to support real-time features such as live notifications and activity streams.
- Managed and secured **Unix/Linux user accounts**, including role-based access controls and shell automation for provisioning.
- Administered and maintained relational and non-relational databases: **MySQL, MongoDB**, and **SQLite** for various application use cases.
- Integrated and managed **Microsoft Azure Active Directory**, including Exchange setup, license provisioning, and group policies.

- Automated recurring system tasks using **Cron Jobs**, including backups, report generation, and queue-based job handling.
- Configured and maintained **virtual machines** for development and testing environments, improving deployment reliability and resource efficiency.
- Designed and executed **scheduler-based workflows** for background processes, enhancing scalability and reducing manual intervention.

Assistant Systems Engineer Trainee

02/2020 - 02/2021

Bangalore, India

Real Time Consultancy Service (RTCS)

06/2019 - 02/2020

Full Stack Developer

Suri, West Bengal

Worked on multiple enterprise solutions across education and logistics domains:

- **College Management Software:** Developed end-to-end features using **Laravel**, **Lumen**, **ReactJS**, and **MySQL** to manage student enrollment, faculty profiles, schedules, and exam modules.
- **Dynamic Job Application System:** Designed a modular job portal supporting real-time applicant tracking and recruiter workflows, powered by **Node.js**, **MongoDB**, and **SCSS**.
- **Challan Management System for Sand Transport:** Built a transport management solution with **mobile QR code validation** and **OTP-based authentication**, streamlining permit generation, vehicle verification, and transport compliance checks.
- Leveraged **Redis** for efficient queue and session management, enhancing performance and responsiveness of transactional operations.

PROJECTS

Hirelytics - AI Interview Platform for Modern Hiring [🔗](#)

A comprehensive recruitment and hiring platform. This system supports three roles: recruiter, and candidate, each with their own login, registration, and dashboard experiences. The platform features AI-powered interviews, real-time audio processing, and automated evaluation of candidates.


AI Interview System

The platform features an advanced AI interview system that allows candidates to participate in automated technical interviews:

- **Interview Preparation:** Candidates can check their camera and microphone before starting the interview.
- **AI-Driven Questions:** The system asks technical, project-related, and behavioral questions tailored to the job position.
- **Real-time Responses:** Candidates can respond via text or speech, with real-time speech recognition.
- **Attention Monitoring:** The system monitors candidate attention through webcam and window focus tracking.
- **Automated Evaluation:** After completion, the system generates an evaluation report with scores for technical skills, communication skills, problem-solving, and cultural fit.
- **Feedback Generation:** Detailed feedback including strengths and areas for improvement is automatically generated.

Python CLI AI Coder (GenAI) [🔗](#)

A command-line tool that leverages artificial intelligence to generate complete project structures, add new features to existing projects, and streamline your development workflow.

Source: <https://github.com/infysumanta/python-cli-ai-coder> 

Talkthru Mental Health Therapy AI Chatbot


Built an AI-powered mental health chatbot using Retrieval-Augmented Generation (RAG), OpenAI GPT-4o, and Gemini for context-aware, CBT-based therapeutic conversations. Integrated emotion detection, vector-based memory, and semantic search for personalized support. Enabled crisis escalation, journaling, and mindfulness workflows with privacy-first design (HIPAA/GDPR compliant).

Healthvio - Telehealth Consultation Platform

Built a full-featured telehealth platform supporting virtual consultations, appointment and consult scheduling, and treatment service management. Implemented dynamic questionnaires, Google and Outlook calendar integration, and Agora-based video calling. Enabled seamless patient-provider communication and efficient consult workflows.


Video Call Appointment App

Nextjs, ReactJs, SCSS, Tailwind, WebRtc, getstream.io

Source: <https://github.com/infysumanta/nextjs-videocall-app> 


Full Stack Kanban Application

ReactJs, Node, MongoDB, Express, Tailwind Css, Styled Component


Source: <https://github.com/infysumanta/node-react-kanban-app> 

Dynamic Form Builder

ReactJs, Nextjs, Node, Postgres, Express, Tailwind Css, Styled Component

Source: <https://github.com/infysumanta/form-builder> 

Provaswito Art Org Website

Source: <https://github.com/infysumanta/provaswito.org> 

Pizza Booking Application

ReactJs, Node, MongoDB, Express, Tailwind Css

Source : <https://github.com/infysumanta/node-react-real-time-pizza-order-app> 


Visual Studio Code Extensions

Source: <https://github.com/vscode-extensions-pack> 

EDUCATION

Bachelor of Computer Science

06/2019

Trivenidevi Bhalotia College 

Raniganj, Westbengal, India

Higher Secondary (W.B.C.H.S.E - Science)

2016

Ondal High School

Secondary (W.B.B.S.E)

2014

Dakshinkhanda High School

Operating System a Case Study [🔗](#)

04/2018

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