



# 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

### Relic Care Inc

06/2024 - present | Remote

#### Sr. Front End Developer

- Led frontend development of an **AI-driven conversational platform** tailored for healthcare facilities, enhancing patient engagement and clinical efficiency through natural voice and chat interfaces.
- Built intelligent **AI voice call** and **voice chat systems** enabling virtual assistance for patients, appointment handling, and medication follow-ups using dynamic dialogue flows.
- Developed **citation-backed AI chat** features, ensuring medically grounded responses and boosting trust in AI-generated content for both patients and providers.
- Integrated EHR platforms such as **Medplum** and **PointClickCare** into the AI workflows to provide real-time clinical data during AI-assisted conversations.
- Architected scalable frontend using **React**, **Refine**, **Turborepo**, and **MUI**, enabling modular feature delivery and enterprise-grade performance.
- Designed and maintained a reusable **Relic AI SDK** and **UI component library**, standardizing the development of AI features across internal applications.
- Implemented secure, seamless authentication with **Google**, **Microsoft**, **Azure AD B2C**, and **Phone OTP**, including **custom B2C policies** for personalized user journeys.
- Integrated **Microsoft Dynamics 365 B2C** for healthcare user lifecycle management and CRM functionalities.
- Developed **Azure Function Apps** to handle backend logic for conversational triggers, data enrichment, and identity integrations.
- Delivered **Microsoft Teams tab apps** to embed AI tools directly into the daily workflows of healthcare providers and support staff.
- Focused on **dynamic content management**, role-based organization features, and real-time UI updates to accommodate diverse facility operations.

### 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> [↗](#)

## PUBLICATIONS

### Operating System a Case Study [↗](#)

04/2018

International Journal of Trend in Scientific

Research and Development (JISTRD), ISSN: 2456-6470

Volume-2 | Issue-3, Unique Identification Number : IJTSRD10780, Paper ID - 10780

## 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