

JAHANARA KHATUN

Senior Software Engineer — Node.js | React | Python

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SUMMARY

Full-stack engineer with 4+ years of professional software development experience building and shipping production web applications using Node.js, React/Next.js, Python, and TypeScript. Experienced in REST APIs, relational and document databases, CI/CD, Docker, cloud deployment, and agentic AI workflows. Strong focus on scalable architecture, clean code, debugging, and end-to-end product delivery.

TECHNICAL SKILLS

Languages / Backend: Python, Node.js, JavaScript (ES6+), TypeScript, FastAPI, Flask, Express.js, SQLAlchemy

Frontend: React.js, Next.js, Redux Toolkit, RTK Query, Tailwind CSS, Material UI, React Hooks, Micro Frontend Architecture

Databases / Infrastructure: PostgreSQL, MySQL, MongoDB, Mongoose, Prisma ORM, Redis, Docker, Docker Compose, Azure DevOps CI/CD, Render, Firebase, Vercel

AI / Agentic: LangGraph, Groq LLM API, OpenAI API, Google Gemini API, Prompt Engineering, Agentic Workflow Design, GitHub Copilot, Claude Code

Other: REST API Design, JWT Authentication, WebSocket/Socket.IO, Postman/Swagger, Git, Cypress, Jest, React Testing Library

EXPERIENCE

Full Stack Developer — Berry Blossom | Jul 2026 – Present | Remote

- Working across frontend and backend development to build, integrate, test, and maintain full-stack web application features.
- Developing production features using Node.js, React/Next.js, TypeScript, and Python-based backend technologies.
- Working on REST API integration, application architecture, debugging, testing, and end-to-end feature delivery.

Senior Software Developer — Technomax System | Jan 2022 – Jun 2026 | Remote

- Built 60+ reusable UI components and dashboards in React.js/Next.js, cutting page load times by 50% and increasing user satisfaction by 40%.
- Designed and integrated REST APIs across Microsoft Graph API, SharePoint API, and 40+ third-party services, increasing data accessibility by 30% for 1,000+ users.
- Implemented Redux Toolkit and RTK Query, cutting data retrieval time by 10% for 80+ daily active users.
- Maintained CI/CD pipelines in Azure DevOps across 3 years of Agile sprints, reducing deployment time by 40%.
- Used Micro Frontend architecture and Cypress for end-to-end testing to keep releases reliable at scale.

SELECTED PROJECTS

RepoGuard Agent AI — AI-Powered Repository Analysis Platform | Next.js, React, TypeScript, FastAPI, Python, PostgreSQL, SQLAlchemy, Alembic, Docker, Render

- Built a full-stack AI-assisted repository auditing platform that ingests software repositories and provides structured analysis across architecture, dependencies, testing, findings, evidence, evaluation, scoring, and agent trajectories.
- Developed FastAPI REST APIs with SQLAlchemy/PostgreSQL and Alembic migrations for repository, analysis, findings, evidence, evaluation, architecture, dependency, testing, changelog, and trajectory workflows.
- Built a Next.js/TypeScript dashboard with reusable components, API integration, demo fallback support, risk indicators, analysis views, and agent trajectory visualization.
- Implemented GitHub repository ingestion and repository workspace/commit tracking, with separate production frontend and backend services deployed on Render.
- Configured production PostgreSQL connectivity, CORS, environment-based API configuration, and database migrations.

AI-First Agentic CRM (Healthcare Interaction Management / HCP Module) | React.js, TypeScript, Tailwind CSS, Python, FastAPI, PostgreSQL, SQLAlchemy, Docker

- Delivered end-to-end CRM functionality including HCP management, interaction logging/editing, history, sentiment capture, AI chat, and follow-up recommendations.
- Built an agentic AI workflow with LangGraph and Groq LLM using 5 specialized tools for HCP lookup, interaction logging, history retrieval, record updates, and follow-up recommendations.
- Automated interaction summaries and follow-up suggestions, cutting review-and-planning time by ~60% in demo testing.

AI-Powered Collaborative Document Editor | React, TypeScript, PostgreSQL, Prisma ORM, Socket.IO, Google Gemini API

- Built real-time collaborative editing with live cursors via Socket.IO, supporting 100+ concurrent users and cutting project completion time by 40%.
- Integrated Google Gemini AI for content rewriting, summarization, and translation across 100+ articles; implemented JWT authentication, role-based access, and offline support.

Binance Futures Trading Bot | Python, Flask, Binance USDT-M Futures REST API

- Built a modular trading application with API client, order service, CLI, validators, configuration, and logging, placing MARKET/LIMIT orders through authenticated REST APIs.
- Added input validation, structured exception handling, dedicated log files, an interactive Flask dashboard, and a Click-based CLI for BUY/SELL orders.

Employee Management System (EMS) | MERN Stack, JWT, React Flow, Recharts, Docker

- Built a full-stack application with JWT authentication and role-based access for Super Admin, HR Manager, and Employee, with MongoDB models for department management and organizational hierarchy.

- Built analytics dashboards with React Flow/Recharts; Dockerized and deployed on Render; covered core functionality with Jest and React Testing Library unit tests.

EDUCATION & CERTIFICATIONS

Master of Arts (M.A.) — Rabindra Bharati University, 2014

Complete Web Development Course — Programming Hero, 2021

Web Design & Development — Amity Computer Academy, 2019

LANGUAGES

Bengali, English, Hindi