NABARUN BISWAS

Full-Stack & Generative AI Engineer

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Github | Portfolio | LinkedIn | HackerRank

SUMMARY

Full-Stack & Generative AI Engineer with expertise in React, Next.js, Node.js, MongoDB, NoSQL, and PostgreSQL, plus foundations in SAP ABAP/HANA. Skilled in building scalable, AI-powered web applications with real-time features, payment systems, and cloud CI/CD pipelines. Currently pursuing IBM Generative AI Certification and recognized for rapid learning, adaptability, and delivering high-impact solutions at scale.

SKILLS

Languages	JavaScript, TypeScript, Python, SQL, HTML, CSS
Frontend	React, Next.js, Tailwind, Redux, Framer Motion, Shadcn UI
Backend	Node.js, Express.js, REST APIs, Authentication, WebSockets, Microservices
Databases	PostgreSQL, MongoDB, Firebase, Convex, NeonDB
Cloud & DevOps	Docker, GitHub Actions (CI/CD), Netlify, Vercel, Clerk, Razorpay, AWS (EC2, S3, Lambda)
AI / ML	OpenAI APIs, 11Labs, VAPI AI, Generative AI (IBM Certification – Ongoing)
Testing	Jest, Cypress, Playwright
Enterprise Tech	SAP ABAP, SAP HANA
Core CS	Data Structures & Algorithms, System Design, Performance Optimization, Scalability

EXPERIENCE

Highradius | Web App Development Intern *(Jan 2022 – Apr 2022)*
- Developed an **invoice management system**, reducing manual payment tracking time by **60%**.
- Designed and implemented **interactive dashboards** using React.js and deployed APIs with Node.js.

CodeClause | Web Development Intern *(Jun 2023 – Jul 2023)*
- Built **real-time applications** (translator, text editor, recommender) with HTML, CSS, and JavaScript.
- Enhanced **responsiveness and user engagement by 30%** through optimized UI/UX design.

PROJECTS

Mediecho AI – AI Medical Consultation Platform | *LINK*
- Built a **lifelike AI doctor avatar** with speech recognition and real-time medical reports.
- Integrated **Razorpay subscriptions + Clerk authentication** with a PostgreSQL credit system.

- Reduced **AI response latency by 25%**, serving **50+ demo users** with production-grade reliability.
  Tech: Next.js, TypeScript, Tailwind, NeonDB, Drizzle ORM, VAPI AI, OpenRouter API

Frontend Guru – E-Learning Platform | *LINK*

- Developed a scalable e-learning platform with **10+ active learners** and integrated **Razorpay.**
- Embedded an **AI voice assistant**, improving new user retention by **40%**.
- Automated deployments via **CI/CD pipelines**, ensuring continuous delivery and uptime.
  Tech: React, Tailwind, Shadcn UI, Framer, Clerk, Razorpay, 11Labs AI, Firebase, EmaiIUS

Youtube-Backend-API | *CODE*

- Engineered a **RESTful backend API** with video upload, secure authentication, and content delivery.
- Implemented **JWT-based auth, file handling, and cloud storage** with Cloudinary.
- Designed with **modular Express.js architecture**, ensuring maintainability and scalability.
  Tech: Node.js, Express.js, MongoDB, JWT, Cloudinary, Bcrypt, Express File Upload, Postman

EDUCATION

B.Tech in **Electronics & Instrumentation** – Narula Institute of Technology (2019 – 2023)
CGPA: 7.0 | MAKAUT, Kolkata

CERTIFICATIONS [LINK]

Coursera – IBM Frontend Engineering Courses,
Generative AI Engineering Professional Certificate(ongoing), SAP ABAP & S/4HANA(ongoing)
RoadsideCoder – Frontend Interview Preparation Course
Trainings – MERN + DSA By Prashant Jain(7-months)
HackerRank – Software Engineer Intern, Frontend (React), JavaScript, Problem Solving
Udemy – Bubble No-code Mastery

ACHIEVEMENTS

- **Final Year Project – Android App Controlled Car with Metal Detector** *(May 2023)* | *LINK*

  - Designed and implemented a **mobile robot car** controllable via an Android app, equipped with a **metal detector** for identifying metallic objects.
  - Contributed to the **coding and system integration**, including Arduino programming, Bluetooth communication, and sensor control.
  - Developed a functional prototype with applications in **security, education, and robotics**, earning recognition during final project evaluations.
    Key Tech: Android App Development, Arduino, Bluetooth, Metal Detection Circuitry, Motor Control, Sensor Integration