SOHAM BISWAS

+91-6297026559 | sohambiswas711@gmail.com | https://soham-biswas-portfolio.onrender.com/

in soham-biswas-748300293 | 🕥 soham-711 | 💆 Soham Biswas

Newtown, West Bengal - 700156, India

OBJECTIVE

Seeking a challenging position in software development and AI to leverage my expertise in full-stack engineering (MERN), algorithm design, and mobile app development. Aiming to contribute to innovative, scalable solutions at the intersection of artificial intelligence and user-centric application design.

EXPERIENCE

Hackathon Participant – Smart India Hackathon 2024 []

Aug 2024

Full-Stack Developer

Remote

- Developed a scalable and secure web application named Farm Market using React and MongoDB to enable real-time reporting of crop prices by and for farmers.
- Designed intuitive UI/UX to allow farmers to view and contribute price data, ensuring accessibility and usability.
- · Enabled efficient backend data storage and retrieval using REST APIs, improving real-time accuracy and farmer collaboration.
- Selected among the top 30 teams at the college level from over 200 participating teams for innovation and impact.

• Final Submission – GDG Solution Challenge 2025 [

Feb 2025 - May 2025

MERN-Stack Developer

Remote

- Submitted VANISH, an AI-powered fire safety training platform for hotel staff, as a finalist entry for the GDG Solution Challenge 2025.
- Designed gamified simulations and interactive video modules to train personnel in emergency scenarios with real-time feedback.
- Integrated FIREBOT, a conversational AI assistant, and sensor-based response evaluation to assess situational handling under pressure.
- Focused on enhancing emergency preparedness in the hospitality sector, under the slogan: "No More Flame, No More Fail, Only Safety, With Faith."

EDUCATION

Sister Nivedita University

jun 2023 - july 2027

B.Tech in Computer Science

Newtown, North 24 Parganas

o GPA: 9.3/10

• Simlon AK Vidyamondir

2021 - 2023

Higher secondary Education

Simlon, Purba Bardhaman

o Grade: 85.5%

• Bulbulitala Sishu Niketan (HS)

2019 - 2021

Secondary Education

Bulbulitala, Purba Bardhaman

o Grade: 95.5%

PROJECTS

• AI Plant Analyzer: Intelligent Botanical Identification

Jan 2024 - Feb 2024

Tools: MERN Stack, Google Gemini API

- Developed a web-based tool that leverages AI to identify plant species from uploaded images using custom-trained models.
- \circ Implemented a Scan \to Analyze \to Download pipeline to provide plant name, scientific classification, medicinal uses, and geographic distribution.
- Integrated MongoDB for user logs and data retrieval, enabling nature enthusiasts and researchers to track identified
- Designed the interface to be intuitive for both academic and casual users interested in environmental exploration.

YouTubeNote: Smart Note-Taking from Videos

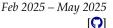
Dec 2023

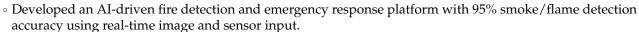
Tools: HTML, CSS, JavaScript

- Built a tool that helps to write notes with timestamps from YouTube videos to enhance learning efficiency.
- Enabled users to export notes in TXT formats and access saved sessions via a storage system.
- Designed an intuitive UI to support keyword filtering, time-linked navigation, and seamless viewing alongside the embedded video.

• VANISH: AI & IoT-Based Emergency Fire Response System

Tools: MERN Stack, Gemini API, Node.js





- Integrated **FIREBOT**, a 24/7 AI assistant providing guidance, alerts, and training via Twilio-based voice/text communication.
- Connected the system to 12+ nearby fire stations for live response coordination and analytics under 2 minutes.
- Included 50+ training videos, 15+ interactive simulation modules, and a live dashboard with 98% real-time data accuracy.
- Finalist project for the **GDG Solution Challenge 2025**, addressing safety in the hospitality sector under the slogan: "No More Flame, No More Fail, Only Safety, With Faith."

Online Book Store: E-Commerce Web App

Aug 2024 - Sep 2024

Tools: MERN Stack, JWT Auth

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• Built a full-featured bookstore web app with product search, user auth, cart.

• AlgoTracker: Algorithm Visualizer for Android

Mar 2024 - Present

Tools: Android, React Native, Expo

- Developed a mobile app that visualizes algorithm execution (FIFO, LRU, OPTIMAL) step-by-step.
- · Used React Native for cross-platform compatibility with animations and interactive step-throughs.

SKILLS

- Frontend Development: HTML5 & CSS3, JavaScript (ES6+), TypeScript, React.js, React Native / Expo, Tailwind CSS, Bootstrap, Next.js (Basic)
- Backend & Database: Node.js, Express.js, Clerk Auth, Convex, MongoDB, SQL
- Programming Languages: JavaScript, TypeScript, Python, C, C++
- Tools & Platforms: Postman, Git / GitHub, Gemini API, VS Code
- Algorithms & Problem Solving: Data Structures, Competitive Programming, Time Complexity Optimization
- Cloud & DevOps: Vercel, Netlify, Render
- Languages Known: Bengali (Native), English (Professional Proficiency), Hindi (Professional Proficiency), German (Basic)

CERTIFICATIONS

HTML Basics – KG Coding	Feb 2024
JavaScript Mastery – KG Coding	Oct 2024
• Full Stack Development (MERN) – Udemy	Jun 2024
• Introduction to AI – Coursera (IBM)	Feb 2025
Introduction to Generative AI – Coursera (Google)	Feb 2025

PORTFOLIO

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