

Vineet Bambah

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Education

Dr. B.R. Ambedkar National Institute of Technology, Jalandhar B.Tech in Electronics & Communication Engineering • Coursework: Operating Systems, Data Structures and Algorithms, Database Management Systems	2022 - Present
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Experience

Freelance Software Developer • Built and deployed a responsive company website (live site) for a fertilizer manufacturing client, implementing SEO and performance optimizations that resulted in 100% Lighthouse scores for Best Practices and SEO. • Debugged and resolved deployment/code issues for an AI startup, enabling production launch within 1 week.	2024 - Present
Indian Institute of Remote Sensing, ISRO Summer Research Intern • Developed a fuzzy logic-based supervised classification algorithm in Python to identify water bodies from multispectral satellite imagery using remote sensing techniques and training sample vectors. • Processed Band Interleaved by Line (BIL) raster datasets using libraries such as Matplotlib and NumPy; performed pixel-wise membership value computation and patch-wise analysis.	June 2025 - July 2025
Open Source Contributor • StructuredLabs (Preswald): Reported reproducible bugs and submitted PRs #776 , #777 fixing visualization rendering issues, improving the stability of interactive Python data apps. • Inkscape: Raised 20+ issues and submitted UI/UX fixes including !6293 (color wheel alignment), merged into the Inkscape 1.6 release used by thousands of designers.	2024 - Present

Projects

Code Calendar (NextJS, NodeJS) • Built a web application that aggregates coding contests from multiple platforms including Codeforces, CodeChef, and LeetCode, allowing users to easily view all upcoming and past contests in one unified interface. • Designed and implemented both REST and GraphQL APIs, deployed them on an AWS EC2 server, and connected the frontend to fetch contest data dynamically in real-time, improving usability and responsiveness.	GitHub
Circl (Twilio API, AWS EC2, PostgreSQL) • Built an automated WhatsApp bot using the Twilio API, enabling users to schedule recurring reminders and personal notifications, while carefully handling WhatsApp's anti-spam restrictions to ensure uninterrupted service. • Developed a scalable, event-driven message-handling system with robust error handling, tested across 50+ simulated interactions, and optimized the backend for reliability, efficiency, and real-world usability.	Github
Venture-Eth (NextJS, Web3JS, Solidity) • Built a web application that enables creators to launch crowdfunding campaigns with transparent fund collection using Ethereum smart contracts, providing users with a secure and decentralized funding experience. • Connected a Next.js frontend to Solidity smart contracts deployed on an Ethereum testnet, implemented real-time transaction handling, and ensured accurate fund tracking and validation across campaigns.	Github

Skills

Languages & Databases: TypeScript, JavaScript, Python, C/C++, SQL/PostgreSQL, Solidity, MongoDB

Frameworks & Technologies: React/Next.js, Node.js/Express, Django, AWS, Git, FastAPI, Docker, Prisma

Volunteering

- **Google Developer Group on Campus - NIT Jalandhar**, Core Team Member
- Organization team for **TEDx NIT Jalandhar** 2024 edition