Biresh Biswas

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EDUCATION

Vellore Institute of Technology - Chennai — Chennai, India
Bachelor of Technology in Computer Science and Engineering — CGPA: 8.31/10.00 — Aug 2023 - 2027

Kendriya Vidyalaya Ambernath — Ambernath, India
Higher Secondary Education | Class XII: 90.8%, X: 93% — 2011 – 2023

EXPERIENCE

Quetzalcoatl Pvt Ltd — Full Stack Developer — Mar 2025 – Present
Docker, Node.js, PrusaSlicer CLI, Python, GCP
- Built containerized 3D printing pipeline reducing Docker image size from 10GB to 1GB through multi-stage builds
- Developed dynamic pricing engine using Python G-code parsing for real-time quote calculations
- Implemented parallel processing with ThreadPoolExecutor for concurrent user request handling

L&T Energy Hydrocarbon — IT Intern — June 2025
ASP.NET Core, SQL Server, QuestPDF, Azure AI
- Built FlowDocs enterprise tool reducing manual effort by 60% and review cycles by 45%
- Implemented role-based workflow with semantic versioning and audit trails
- Designed normalized SQL Server database with Entity Framework Core for compliance

OPEN SOURCE CONTRIBUTIONS

Open Library — Core Contributor — PRs ↗
Python, JavaScript, Jest, APIs
- Developed OpenAlex CLI tool ↗ importing 15K+ books with comprehensive data validation
- Fixed critical "Want to Read" bug with JavaScript/Jest testing and maintained weekly contributor calls

Formstr (Bitcoin/Nostr) — Feature Developer — PRs ↗
JavaScript, Nostr Protocol, WebLN, Bitcoin Lightning
- Implemented NIP-05/NIP-50 support with unified search and Bitcoin Lightning "zap" payment integration
- Built Jest testing framework with Docker-based local Nostr relay for integration tests

PROJECTS

Outreach | *FastAPI, Next.js 15, Crawl4AI, Gemini AI* — GitHub ↗
- Built platform that transforms natural language goals into web discovery and outreach using LLMs and Crawl4AI
- Extracts summaries and contact info from geo-targeted sites to help users connect with relevant groups or orgs

HAVEN | *Next.js, PostgreSQL, NextAuth, Ola Maps API* — GitHub ↗
- Created incident-tracking app with interactive emoji-map UI and community upvoting
- Integrated Twitter crawler pipeline, geolocation services, and PostgreSQL with Prisma

ACHIEVEMENTS

- Summer of Bitcoin bootcamp (2025): Selected from applicant pool, cleared all technical assessments, contributed to Formstr
- 1st Runner-Up, I Love Hackathon: Chennai Web3 (2/49 finalists, 900+ applicants)
- Top 15 in DevHouse 2024 (15/64 finalists, 1000+ applicants, by GDSC VIT-Chennai)
- Hacktoberfest 2024 with contributions to Ansible, spotDL, and other popular repositories

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#, Solidity, HTML/CSS
Frameworks: React, Next.js, Node.js, FastAPI, ASP.NET Core, Express, Flask
Tools/DB: PostgreSQL, MongoDB, SQL Server, Docker, Git, Linux, REST APIs, GraphQL
Cloud/AI: GCP, Azure AI, LangChain, Groq, WebLN, Nostr Protocol, Bitcoin Lightning