Biresh Biswas

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EDUCATION

Vellore Institute of Technology - Chennai   Chennai, India
Bachelor of Technology in Computer Science and Engineering — CGPA: 8.14/10.00   *Aug 2023 - 2027*

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

EXPERIENCE

Nethermind — Software Engineer Intern   Jan 2026 – Apr 2026
DeFi, Multi-Chain, Agentic Systems, Python

- Built and open-sourced a deterministic DeFi transaction [engine](#) ↗ that converts natural language intents into unsigned, auditable transaction payloads
- Architected a JSON-playbook system where adding a protocol requires zero engine code. resolvers, ABI encoding, approvals, and multi-chain addresses are all data-driven, enabling contributors to add protocols via PR.
- Shipped multi-platform distribution (Claude Code plugin, OpenClaw skill, hosted REST API, pip package) with security hardening, structured errors, and fork-replay benchmark methodology.

Samsung R&D — Research Intern   Sep 2025 – Apr 2026
SplitLoRA, PyTorch, Hugging Face, Python

- Developing SplitLoRA framework for distributed fine-tuning across resource-constrained devices.
- Implementing layer-wise model splitting and LoRA adapter allocation for coordinated CPU–GPU–multi-device training.

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% with role-based workflow, semantic versioning, and audit trails.

PROJECTS

Outreach | *FastAPI, Next.js, Crawl4AI, GenAI, AWS (EC2, RDS, S3, CloudFront, SES)*   [GitHub](#) ↗
- Developed an AI-powered connection service that transforms natural language goals into lead discovery/outreach
- Built LLM-driven query expansion with Crawl4AI for geo-targeted crawling, contact extraction and summarization
- Implemented semantic search, predictive lead scoring with ML, and deployed a scalable AWS architecture

Open Library | *Python, JavaScript, Jest, APIs*   [PRs](#) ↗
- Built OpenAlex CLI importing 15K+ books with data validation; fixed critical bugs with Jest testing; maintained weekly contributor calls.

Formstr (Bitcoin/Nostr) | *JavaScript, Nostr, WebLN, Lightning*   [PRs](#) ↗
- Implemented NIP-05/NIP-50 unified search, Bitcoin Lightning payment integration, and Docker-based local relay testing.

ACHIEVEMENTS

- 1st Runner-Up, I Love Hackathon: Chennai Web3 (2/49 finalists, 900+ applicants)
- Top 15 in DevHouse (15/64 finalists, 1000+ applicants) | Hacktoberfest contributor (Ansible, spotDL)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#, HTML/CSS
Frameworks: React, Next.js, Node.js, FastAPI, ASP.NET Core, Flask, PyTorch
Tools/DB: PostgreSQL, MongoDB, SQL Server, Docker, Git, Linux, GraphQL
Web3/DeFi: Solidity, ethers.js, web3.py, ABI encoding, Multi-Chain
Cloud/AI: AWS, GCP, Azure AI, LangChain, Hugging Face, LoRA/PEFT