

# Biresh Biswas

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## EDUCATION

### Vellore Institute of Technology - Chennai

*Bachelor of Technology in Computer Science and Engineering — CGPA: 8.31/10.00*

Chennai, India

Aug 2023 - 2027

### Kendriya Vidyalaya Ambernath

*Higher Secondary Education | Class XII: 90.8%, X: 93%*

Ambernath, India

2011 – 2023

## EXPERIENCE

### Samsung PRISM — Research Intern

Sep 2025 – Present

*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 training
- Evaluating scalability, efficiency, and accuracy across CPU–GPU–multi-device setups

### 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 — Contributor

[PRs](#) ↗

*Python, JavaScript, Jest, APIs*

- Developed OpenAlex CLI ↗ 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) — Contributor

[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, 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

## ACHIEVEMENTS

- 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#, HTML/CSS

**Frameworks:** React, Next.js, Node.js, FastAPI, ASP.NET Core, Express, Flask

**Tools/DB:** PostgreSQL, MongoDB, SQL Server, Docker, Git, Linux, GraphQL

**Cloud/AI:** GCP, Azure AI, AWS, LangChain, Groq, WebLN, Nostr Protocol, Bitcoin Lightning