SHIVAKUMAR JAGADISH

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SUMMARY

A computer science senior who is driven to learn everything from the ground up and is curious and persistent. I have built an Elliptic Curve Cryptography library from scratch in order to completely comprehend the underlying mathematics. I have currenly started blogging in my personal website. I'm excited to use my passion for finding solutions to difficult problems in a software engineering internship.

EDUCATION

Sir M. Visvesvaraya Institute of Technology Expected 2027
Bachelor of Engineering in AIML *Bengaluru, Karnataka*

SKILLS

- **Languages:** Python, C, SQL, C++, Go, Java, JavaScript, Lua
- **Frameworks & Libraries:** PyTorch, TensorFlow, FastAPI, Pydantic, SQLModel
- **Developer Tools:** Git, GitHub, Docker
- **Technical Concepts:** Machine Learning, Backend Development, API Design, DSA, Web Scraping, Cryptography

EXPERIENCE

BigDataMatica Oct 2026 - Current
AI Developer Intern

- **Project:** MSME ODR Project
- Currently working on **E2E testing**, and adding features to the **ODR**.

Hedera - Heiro Ledger Jan 2026 - Jul 2026
Junior Commiter

- Contributed in releases from **v1.6.0** to **v2.0.0**.
- Opensource role by **Linux Foundation Decentralised Trust (LFDT)**.

PROJECTS

Elliptic Curve Cryptography (ECC) Library Source Code | Link to PyPi
Python, Cryptography, PyPI, Git

- Built an ECC library from scratch without external dependencies, with just fundamental mathematics behind modern public-key cryptography.

Certichain - Document Anchoring Blockchain Source Code
Go, Cryptography, Blockchain, Git

- Built an Blockchain from scratch for anchoring document's content. This can be used to check the authenticity of the document and check if it has been tampered of not.

Transport Management System (TMS) Source Code
FastAPI, Pydantic, SQLModel

- Building a robust backend system to manage logistics for transportation, applying modern software design patterns.

HACKATHON EXPERIENCE

Hack This Fall 2024
Backend Developer *Online*

- **Project:** Social Media Trend Analyzer
- Architected and built the entire backend, including a web scraper to collect real-time tweet data.
- Developed an AI model to analyze the tweets and identify emerging trends.

GITAM University Hackathon
AI Developer *Bangalore*

- **Project:** Pro-Fetch | AI-Powered Chatbot
- Fine-tuned an AI model for acadamics. Integrated the chatbot backend with the team's frontend.