

CHAITANYA KEYAL

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Backend Systems | AI Engineering | Open Source

EDUCATION

Birla Institute of Technology and Science, Pilani

B.E. Computer Science, M.Sc. Mathematics, Minor in Data Science

Hyderabad, India

2023 – 2028

EXPERIENCE

Summer of Bitcoin

May 2026 – Aug 2026

Open Source Developer

Remote

Summer of Bitcoin places students into open-source Bitcoin projects through a competitive selection: about 50 to 60 are chosen globally each year from roughly 5,000 applicants. **Selected twice**, both times to work on SeedSigner, an air-gapped Bitcoin signing device.

- Now one of the top contributors to SeedSigner, involved in 80+ PRs and issues.
- Automated SeedSigner's localization (i18n) workflows to remove routine burden from translators, contributors, and maintainers while improving review quality and safety.

OnFinance AI

Jun 2025 – Present

AI Engineering Intern

Bengaluru (Hybrid)

- Built LangChain/LangGraph agents from scratch that automate circular analysis for various regulators like SEBI, RBI, AMFI, etc., cutting interpretation time by ~90% and saving 100+ hours per regulatory update.
- Designed a search agent over 2000+ circulars and 500,000+ clauses that answers with citations instead of raw matches.
- Orchestrated end-to-end pipelines spanning document parsing, action-item generation, evidence review, and risk analysis.
- Migrated the backend service to PostgreSQL from MongoDB, improving query performance by 2 to 3x.

Summer of Bitcoin

May 2025 – Aug 2025

Open Source Developer

Remote

- Extended BIP-85 support on SeedSigner to enable direct child seed loading.
- Refactored the Python codebase for maintainability and shipped UI alerts warning users of high transaction fees.

SellerSetu

Mar 2024 – Mar 2025

Software Engineering Intern

Remote

- Refactored the ONDC monolith into Go/Django microservices handling 10k+ daily transactions at 2x throughput.
- Cut API latency from ~5s to ~1s through architectural changes and resource management.
- Built an agentic booking system integrating ONDC, Uber, and Rapido through browser automation.

LEADERSHIP & INVOLVEMENT

cruX (Programming Club) - BITS Pilani

Jan 2024 – Present

Software Developer

Hyderabad, India

- Built BitsGPT, a multi-agent RAG chatbot (LangGraph + vector DB) for academic queries.
- Contributed to Chronofactorem, with an Elasticsearch-powered search service indexing the entire course catalog and student timetables for sub-second retrieval.
- Built Chrono2GCal, a Python tool auto-syncing semester timetables to Google Calendar.

Central Analytical Laboratory

Aug 2024 – Present

Undergraduate Teaching Assistant

Hyderabad, India

- Maintained the online instrument booking portal, improving reliability for university researchers.

PROJECTS

asynchrony | Python, LangChain, SQL | github.com/Chaitanya-Keyal/asynchrony

Sep 2024

Winner of the **Synchrony Hackathon (1st place, INR 2,00,000)**: an autonomous agent that turns natural-language questions into complex SQL.

- Engineered dynamic schema parsing so the agent adapts to changing database structures.
- Accurately classifies user requests and generates syntax-valid SQL queries for precise personal financial data retrieval.

satbook | TypeScript, SvelteKit, Bun, SQLite, Drizzle | github.com/Chaitanya-Keyal/satbook

Aug 2026

A single-user Bitcoin portfolio tracker that doubles as an India VDA tax engine. Every income, buy, sell, spend and self-transfer goes into one ledger, and holdings, break-even, unrealized P/L and Schedule VDA figures are recomputed from it on every read.

- Computes tax the conservative way under s.115BBH: flat 30% plus cess, cost of acquisition only, losses ring-fenced, network fees neither taxed nor deducted.
- Autofills transaction information from a pasted on-chain txid.

TECHNICAL SKILLS

Languages: Python, TypeScript, Go, C/C++, Java, SQL, Bash

AI: LangChain, LangGraph, Vector DBs, Agentic systems, LLMs, RAG, Embeddings, Evals

Backend: FastAPI, Django, PostgreSQL, MongoDB, Elasticsearch, Redis, REST APIs, Microservices

Infra: Docker, AWS, Kubernetes, GitHub Actions, Linux, CI/CD, Git