

CHAITANYA KEYAL

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Backend Systems | AI Engineering | Open Source

EDUCATION

Birla Institute of Technology and Science, Pilani

Hyderabad, India

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

2028

EXPERIENCE

Summer of Bitcoin (SeedSigner)

May 2026 – Present

Open Source Developer

Remote

- Automating SeedSigner's localization (i18n) workflows to remove routine burden from translators, contributors, and maintainers while improving review quality and safety.
- Built CI tooling to detect missing and stale translations across supported languages, catching errors pre-review and cutting manual maintainer effort.

OnFinance AI

June 2025 – Present

AI Engineering Intern

Hybrid

- Developed LangChain/LangGraph agents to automate circular analysis for SEBI, RBI, IRDAI, and AMFI, reducing interpretation time by 90% and saving 100+ hours/update.
- Designed a search agent for 200+ circulars and 20k+ clauses, providing cited, context-aware answers.
- Orchestrated end-to-end pipelines spanning document parsing, action-item generation, evidence review, and risk analysis.

Summer of Bitcoin (SeedSigner)

May 2025 – August 2025

Open Source Developer

Remote

- Extended BIP-85 support on SeedSigner (air-gapped Bitcoin hardware wallet) to enable direct child seed loading.
- Refactored the Python codebase for maintainability and shipped UI alerts warning users of high transaction fees.
- Hardened CI/CD pipelines and resolved targeted bugs, improving build reliability and code quality across releases.

SellerSetu

March 2024 – March 2025

Software Engineering Intern

Remote

- Refactored ONDC monolith into microservices (Go/Django), handling 10k+ daily txns with 2x throughput.
- Reduced API latency from ~5s to ~1s through architectural optimizations and resource management.
- Built an agentic AI system integrated with ONDC, Uber, and Rapido using browser automation for end-to-end booking workflows.

PROJECTS

FinQuery AI (Synchrony Hackathon) | *Python, LangChain, LLMs, SQL*

- Winner - 1st Place (INR 2,00,000):** Built an autonomous agent translating natural language to complex SQL.
- Engineered dynamic schema parsing, enabling the agent to adapt to changing DB structures with 100% syntax accuracy.
- GitHub: github.com/Chaitanya-Keyal/asynchrony

LEADERSHIP & INVOLVEMENT

CRUx (Programming Club) - BITS Pilani

Jan 2024 – Present

Software Developer

Hyderabad, India

- BitsGPT:** Architected a multi-agent RAG chatbot using LangGraph and vector DBs to handle academic queries with context-aware responses.
- Chronofactorem:** Engineered an Elasticsearch-powered search service indexing the entire university course catalog and student timetables for sub-second retrieval.
- Chrono2GCal:** Developed a Python automation tool to auto-sync 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.

TECHNICAL SKILLS

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

Frameworks: Django, FastAPI, LangChain, LangGraph, Flask, Next.js, React

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Elasticsearch

DevOps & Cloud: Docker, AWS, GCP, Azure, Git, Linux, Nginx

Specializations: AI Agents, RAG Pipelines, Microservices, API Design