Aourabindo Rout

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Summary

Software engineer focused on backend systems and AI engineering, with strong foundations in data structures, algorithms, and computer science. Experienced in building API-driven, asynchronous, and event-driven systems, along with RAG workflows, LLM integrations, and engineering automation.

Experience

Accops (A Reliance Jio Group Company) — Pune, India

Associate Software Engineer — *July 2026 – Present*

- Implemented and tuned Nginx-based request rate limiting in **15** endpoints to control traffic bursts and protect backend services from excessive request load.
- Enhanced daemon process responsible for maintaining file consistency across Zero Trust access nodes in an HA cluster, improving synchronization reliability and handling node/file synchronization failures.

Oracle — Pune, India

Software Development Intern — *January 2026 – July 2026*

- Implemented core RAG pipeline components for an enterprise AI assistant, including document chunking, embedding-based similarity retrieval, top-k context selection, and augmented prompt construction using internal model APIs, improving retrieval quality across internal evaluation datasets.
- Built a dashboard automation platform adopted by **5 product teams**, integrating Oracle APEX APIs to generate **6 analytical chart types** and auto-publish Confluence reports in under **1 minute**, reducing **15–20 minutes** of daily manual reporting per team.
- Designed an LLM-assisted release documentation pipeline that extracted Jira changes across **20 product modules**, filtered engineering-relevant updates, and generated structured release notes for monthly release cycles, reducing manual release-summary effort.

Projects

CoinSwitch Exchange Connector for Hummingbot | *Python, REST APIs, WebSockets*

- Built a CoinSwitch exchange connector for the open-source Hummingbot trading framework, enabling automated strategy execution through live exchange APIs.
- Integrated **13 REST endpoints** for order management, portfolio operations, market depth, candlestick data, and trading fees, with authentication, throttling, and rate-limit handling.
- Implemented **5 concurrent WebSocket streams** for real-time market data, order updates, and portfolio synchronization using asynchronous event-driven architecture.
- Stabilized the connector through live testing and analysis of **200k+ log lines**, resolving race conditions, order lifecycle synchronization bugs, and exchange integration failures. [Source Code]

Achievements

Codeforces Expert (Max Rating: 1608) (Profile)

- Rank 363 / 26,000+ participants (Round 929)
- Rank 443 / 17,000+ participants (Round 927)
- Rank 627 / 18,000+ participants (Round 913)

Skills

Languages: Python, C++, Java, SQL
Core CS: Data Structures, Algorithms, OOP, DBMS, Operating Systems, Computer Networks
Software Engineering: REST APIs, WebSockets, API Design, Asynchronous Programming, Concurrency, Event-Driven Systems, Production Debugging
AI: RAG, LLM Integration, Prompt Engineering
Frameworks & Tools: Django, Flask, GitHub, Jira, Confluence, Oracle APEX, Wireshark

Education

Army Institute of Technology — Pune, India

Bachelor of Engineering — Electronics and Telecommunication — *2022 – 2026*