

Subhransu Priyaranjan Nayak

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Dear Hiring Manager,

I am a **Software Developer**, graduated with an Integrated B.Tech from **IIT Bhubaneswar** in **May 2026**. I am writing to express my interest in **Software Engineering and Software Development** roles where I can contribute meaningfully to building reliable, scalable, and high-performance systems.

My algorithmic foundation is demonstrated through **1,500+ Data Structures and Algorithm problems** solved across competitive programming platforms - **LeetCode** Peak Rating **1934** (Top 4%), **CodeChef** 3-Star (**1682**) , **Codeforces** Peak Rating **1345** and won a **Bronze Medal at Inter IIT Tech Meet 10.0** across 23 IITs. Strong algorithmic thinking and problem-solving are the foundation I build everything else on.

I hold strong command over **core Computer Science disciplines** including **Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems, Distributed Systems, System Design, API Design, and Data Modelling** - competencies that directly inform the quality of systems I design and deliver.

My core stack spans **Java, C++, Python, JavaScript, TypeScript, and SQL** with hands-on experience across the MERN stack, distributed systems, backend infrastructure, GenAI/RAG pipelines, and AI engineering with PyTorch, Hugging Face, and LangGraph.

Professionally, at **HealthyDay**(Internship) I engineered a **BigQuery data infrastructure serving 600K+ users 150+ optimized SQL pipelines, 50+ reusable analytical views**, cohort retention models, and Looker Studio dashboards across attendance, referral, subscription, and payment workflows. The internship was extended by six months. At **Hanyaa Auto Technologies**, I fine-tuned a 1.6B parameter TTS model and shipped a multilingual AI narration pipeline across English, Hindi, and Telugu.

My project portfolio reflects depth across backend engineering, distributed systems, full-stack development, and Generative AI:

- **DynamoCore:** Java implementation of the **Amazon Dynamo paper**, featuring quorum consensus, consistent hashing, Gossip-based failure detection, and Merkle tree anti-entropy, achieving 12ms p99 write latency.
- **UrbanEats:** Production-grade MERN stack platform with 6 decoupled Node.js/TypeScript microservices, RabbitMQ event queues, real-time GPS dispatch via Socket.IO, and HMAC-secured payment finalization.
- **Enterprise RAG Orchestrator:** Combines LangGraph stateful routing, Qdrant hybrid retrieval, and an AST-guarded Text-to-SQL engine deployed on Kubernetes.

I am eager to **apply my background in Full-Stack Development, distributed Systems, event-driven microservices, and AI Engineering skills** to help your team solve complex backend scaling challenges.

Thank you for your time and consideration. I look forward to the opportunity to speak with your team.

Sincerely,

Subhransu Priyaranjan Nayak
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