

# Jainendra Tripathy

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## Education

INDIAN INSTITUTE OF TECHNOLOGY (ISM), DHANBAD  
Pursuing Integrated Master of Technology  
CGPA: 8.98 / 10.00  
Relevant Coursework: Data Structures and Algorithms (C++), Linear Algebra, Mathematical Functional Analysis with Computational Applications (Python), Operations Research, Building Software Systems.

Expected May 2026  
Dhanbad, Jharkhand

## Experience

PiePay  
FullStack Engineer Intern | Node.js, TypeScript, Express.js, MongoDB, Redis, AWS (S3, SQS, CloudWatch, SDK)  
• Refactored Redis caching into a reusable module for 5+ microservices, reducing latency by 40%.  
• Designed Regex-based parsing for unstructured offer data, increasing accuracy by 30%.  
• Implemented category normalization and merchant APIs, scaling to 100+ categories and improving query efficiency by 35%.

Aug. 2025 – Sept. 2025  
Remote

Amazon Development Centre India  
SDE Intern | Java, Node.js, TypeScript, React, AWS (Lambda, S3, API Gateway, CDK), IAM, JUnit, Mockito  
• Migrated microservices to JDK 17, resolving 200+ compatibility issues and stabilizing rollouts.  
• Built a serverless file ingestion pipeline with validation, deduplication, and audit logging, automating a manual workflow.  
• Developed an internal React tool with real-time validation, upload feedback, and role-based access.  
• Provisioned infra via AWS CDK with least-privilege IAM, encrypted storage, CORS-compliant APIs, and monitoring.

May 2025 – July 2025  
Bangalore

Neuronexus Innovations  
Web Developer | HTML, CSS, React.js, Node.js, Express.js, MongoDB [GitHub]  
• Built a responsive landing page, improving conversion rates by 30% and load speed by 50%.  
• Developed an e-commerce platform with advanced filtering (+40%), optimized checkout (-25% time), and secure payments (-20% failures).  
• Enhanced engagement with interactive cart and smart search, increasing conversions by 20% and reducing bounce rate by 30%.

Nov. 2023 – Dec. 2023  
Remote

## Projects

CodeFoundry AI | React, Node.js, TypeScript, Vite, TailwindCSS, Anthropic AI SDK, WebContainers | GITHUB  
• Engineered an AI-powered web development environment that translates natural language prompts into fully functional React/Node.js applications with 90%+ build success rate.  
• Designed and implemented a backend in Node.js + Express to orchestrate prompt engineering, enforce structured XML-based AI outputs, and stream responses to the client in real-time.  
• Built a browser-based IDE using React, Vite, Monaco Editor, and WebContainers to support file editing, dependency installation, command execution, and instant live previews in a sandboxed runtime.  
• Mitigated AI hallucination issues by validating generated code through in-browser sandbox execution, achieving sub-2s feedback loops and improving reliability of code generation.

## Sports Programming

| Platform   | Username        | Solve Count | Rating |
|------------|-----------------|-------------|--------|
| CodeChef   | CodeBreaker_007 | 167         | 1612   |
| Atcoder    | CodeBreaker_007 | 138         | 738    |
| Codeforces | CodeBreaker_007 | 225         | 1258   |

## Technical Skills

**Programming:** Python, C++, C, SQL  
**AI/ML:** Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs, Transformers, BERT), NLP, Computer Vision (OpenCV)  
**Web Development:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, REST APIs  
**Cloud (AWS):** Lambda, S3, API Gateway, EC2, IAM, CDK, CloudWatch, VPC, Route53, ECR  
**Tools & CS Fundamentals:** Git/GitHub, Linux/Unix, Data Structures & Algorithms, OOP, Operating Systems

## Achievements

- Selected among 700 GDSC Leads in India (2023–24) and chosen for the Amazon ML Summer School 2024.
- Semifinalist in Flipkart Grid 5.0 (Top 283 teams) and Adobe Papyrus Nebulae.
- Placed Top 2 in Idea Pitch at Code for GovTech (C4GT) – cQube File Validation.
- Achieved strong programming ranks: India Rank 51 in Codeforces CF 884 (Div 1 + Div 2), 102/3023 in CodeRush Dec 2023, and 58th in HackerEarth DSA Contest (Jan 2024).

## Social Engagements

**GDSC Lead '23:** Google Developer Student Club Lead, IIT (ISM) Dhanbad  
**Club Member:** Udaan – The Career Club, IIT (ISM) Dhanbad  
**Volunteer:** Kartavya – Student-run NGO educating underprivileged children  
**Founder:** AlgoZenith Club: IIT(ISM) Dhanbad Chapter  
**President:** Unstop Campus Program: IIT(ISM) Dhanbad Chapter  
**Sports:** Badminton (Beginner), Chess (457 Rapid)

## Soft Skills

**Language:** English (Fluent), Hindi (Native)  
**Graphic Design:** Beginner