

ARYAMAN PATHAK

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Education

International Institute of Information Technology Bangalore

Oct 2022–July 2027

Integrated Master of Technology in Electronics and Communication Engineering

CGPA: 3.26/4

Experience

Wana Create

Aug 2025 – Feb 2026

Software Engineer Intern

Remote

- Spearheaded the full-stack development of a native iOS and Android ecosystem for **4,000+ active users**, implementing **MVVM architecture** to ensure code modularity and scalability.
- Orchestrated the **end-to-end SDLC**, optimizing **CI/CD pipelines** for automated testing and deployment, which reduced release cycle time by **30%** and ensured **consistent application stability** across devices.

IIIT Bangalore – Ola Krutrim AI (SRIP)

May 2025 – June 2025

Research Intern

Remote

- Engineered a high-throughput **Python data pipeline** to evaluate Large Language Models (LLMs) on complex medical datasets (MedMCQA), focusing on tokenization efficiency.
- Optimized domain adaptation techniques which improved model inference accuracy, resolving critical **system-level bottlenecks** regarding memory allocation during large-batch processing.

Achievements

Amazon ML Challenge

Oct 2025

- Ranked **156th All India** (of **80K+**) with best rank **15th**, building a **multimodal price model** using product images and text.

Flipkart GRiD 6.0

Jan 2025

- 2nd Runner-Up** among **3,500+ teams** for building **vision models** for inventory management and freshness detection.

Accenture Innovation Challenge

Nov 2024

- National Winner (200K+)**: Built an **AI code generation tool** from natural language, reducing boilerplate time by **40%**.

Google Gen AI Exchange Hackathon

Sep 2024

- Top 5 National Finalist (Jio Finance)**: Built an **AI agent for end-to-end software generation** from requirements to code.

Projects

RehabConnect | Flutter, Bluetooth Low Energy, IoT

Aug 2024–Nov 2024

- Architected a real-time IoT rehabilitation interface utilizing **Bluetooth Low Energy (BLE)**, achieving ultra-low latency (**~50ms**) for synchronizing IMU sensor data with Unity-based games.
- Integrated a robust backend system for **telemetry tracking** and emergency alerts, facilitating collaborative caregiving with data sync response times under **2 seconds**.

Swiftly: P2P Rental | Microservices, Django, Next.js, Redis

June 2024–July 2024

- Developed a scalable P2P rental platform featuring **JWT-based authentication** and **Role-Based Access Control (RBAC)**, ensuring secure API endpoints for diverse user types.
- Implemented a **WebSocket-driven** real-time chat and feedback loop, which enhanced user engagement metrics and achieved a **90% satisfaction rate** in beta testing.

PayNest | System Design, PostgreSQL, Turborepo, Docker

May 2024–June 2024

- Constructed a high-concurrency wallet transaction simulator capable of processing **1,000+ TPS**, leveraging **PostgreSQL row-level locking** to handle race conditions.
- Deployed a monorepo architecture using **Turborepo**, ensuring type safety and reducing build times by **40%** across the comprehensive fintech simulation stack.

Lawer: AI Legal Assistant | NLP, Vector Search, Django, GenAI

Jan 2023–March 2023

- Engineered an AI-powered legal retrieval system utilizing **vector embeddings** for semantic search, achieving **90% query accuracy** and sub-300ms retrieval latency.
- Synthesized Generative AI models to provide context-aware legal summarization, significantly reducing manual research time for complex case precedents.

Technical Skills

Languages: C++, Java, Python, JavaScript, TypeScript, Dart, Swift, Kotlin

Frameworks: React, Next.js, Express.js, Django, Flutter, PyTorch, Turborepo, Unity

Databases & Cloud: PostgreSQL, MongoDB, Firebase, Redis, AWS (EC2, S3), Docker, Git

Core Concepts: Data Structures & Algorithms, REST APIs, Microservices, CI/CD, OOP, System Design

Leadership / Extracurricular

Google Developer Student Club, IIIT Bangalore

Sep 2024–Aug 2025

Head of Web3 and Blockchain Projects/Initiatives

Zense Club, IIIT Bangalore

Aug 2024–Aug 2025

Web Development Head - Led the design and implementation of technical solutions for the club's web presence