

Ayush Pathak

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EDUCATION

Indian Institute of Information Technology Dharwad

Bachelor of Technology in Data Science and Artificial Intelligence

Dharwad, IN

June 2022 – May 2026

EXPERIENCE

Software Developer Intern

Dec 2025 – Present

Entnt

Remote, IN

- Design, develop, and maintain custom software and AI-driven applications for global clients as part of ENTNT's remote-first workforce.
- Participate in full software development lifecycle requirement analysis, implementation, testing, deployment and maintenance ensuring robust and scalable solutions.
- Collaborate remotely with a distributed engineering team, leveraging modern tools and best practices to deliver quality software on global projects.

Software Developer Intern

Jun 2025 – July 2025

Dentsu

Bangalore, IN

- Developed NLQ-based AI chatbots using OpenAI GPT-4o and Snowflake Cortex, enabling SQL generation from natural language across **1–2B** daily data points for over **100** retailers.
- Built a full-stack monitoring dashboard using React.js, Express.js, and FastAPI, enabling real-time visibility into **2,000+** daily jobs, integrated with Snowflake via Python APIs.
- Enhanced RCA and observability, reducing job recrawls and conflict-driven delays by **35%**, improving SLA adherence during spikes of up to **1,611** job failures/day.

Software Developer Intern

Aug 2024 – Sept 2024

DataAstraa

Mumbai, IN

- Migrated **1000+** lines of legacy code to a modular TypeScript architecture, reducing runtime errors by **70%** and improving maintainability
- Implemented server-side pagination and query optimization in Node.js + MongoDB, cutting API response time from **1.8s** to **400ms**
- Built a custom React hook library for form and input state management, reducing repetitive boilerplate across **15+** components by **60%**

PROJECTS

• [Mail.ai](#)

Next.js, Prisma, PostgreSQL, Stripe, BullMQ, Redis, Groq SDK

- Developed an AI-powered bulk email platform with Groq-SDK for customizable templates and advanced personalization.
- Designed a scalable delivery system using Redis and BullMQ, achieving **40%** faster delivery and **99.9%** uptime.
- Created a subscription system with Stripe for usage-based pricing and automated billing for enterprise clients.

• [AI Code Assistant](#)

Python, LangChain, OpenAI GPT-4, Pinecone, FastAPI, React

- Built an AI-powered code assistant supporting multiple programming languages, enabling developers to generate and improve code efficiently.
- Implemented a retrieval-augmented generation (RAG) pipeline with Pinecone for context-aware code suggestions from large codebases.
- Designed intelligent code review and suggestion features, reducing debugging time and improving overall code .

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, C++, C, SQL, Python
- **Web Technologies:** HTML, CSS, Tailwind CSS
- **Frameworks & Libraries:** React.js, Next.js, Express.js, Hono, Node.js, Prisma, NextAuth
- **Databases:** PostgreSQL, MongoDB, Pinecone
- **AI & Agentic Tools:** LangChain, AutoGen, OpenAI, LangServe, Pinecone, Vector Stores, RAG Pipelines, MCP Servers, Function Calling, Prompt Engineering