

Rahul Pandey

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EDUCATION

National Institute of Technology, Jamshedpur
Bachelor of Technology in Electrical Engineering - CGPA : 8.46

Jharkhand, India
December 2020 - May 2024

EXPERIENCE

INTERFACE AI

Software Engineer

August 2025 – Present

Remote, India

- Created an **AI-driven customer support platform** using **Retrieval-Augmented Generation (RAG)** with **Qdrant** and **Salesforce data**, automating ticket triage and initial debugging to **reduce average resolution time by 30%**.

EDRA LABS

Software Engineer

August 2024 – August 2025

Mumbai, India

- Designed and shipped an **end-to-end Retrieval-Augmented Generation platform** including a **custom semantic chunking algorithm** that delivers **98%+ top-k retrieval precision** for domain-specific queries.
- Architected a universal, **AI-driven scraping SaaS** that leverages the RAG core to auto-extract images, video, text, and specifications from any website reducing category-launch lead-time by **83% (6 months to 4 weeks)** and eliminated manual data-collection sprints.
- Prototyped an **autonomous backlink-generation agent** that leverages Robotic Process Automation to place high-quality references across industry forums & blogs, driving Domain Authority from **18 to 34 (+89%)** in two months and materially improving organic SEO.
- Built an **LLM-powered research assistant** that replicates product-manager workflows, slashing the upfront research cycle crucial for creating schemas and defining scope from **8 weeks to 1 week (-89%)**.
- Migrated SaaS infrastructure to **AWS Auto Scaling Groups and ECS Fargate**, enabling elastic scaling, cutting idle compute costs by 40%, and eliminating manual provisioning.
- Developed an **incremental "diff" scraping framework** to detect and ingest only net-new website content, while **reducing redundant crawl bandwidth by 90%** by pruning trees.
- Refactored all user-facing website URLs** in line with **SEO best practices**, and **implemented 301 redirects for 1,800+ previously indexed URLs** to preserve search engine rankings, enhance crawlability, and ensure a seamless user experience post-migration.

ATLASSIAN

Software Engineer Intern

Jan 2024 – June 2024

Bangalore, India

- Designed and integrated **5 Amazon DynamoDB tables** into the marketplace search service to support **OpenSearch-related operations**, enabling storage of selected models and facilitating critical DB interactions to improve performance and scalability.
- Engineered a time-bound caching layer** for backend API calls, resulting in a **70% reduction in database read/write load**, significantly improving system throughput and latency.
- Integrated SonarQube into CI/CD pipelines**, resolved all existing code smells, and **increased the project's code quality score from 0 to 10**, aligning the codebase with internal engineering standards.
- Implemented robust validations and fallback mechanisms** for daily **Algolia reindexing**, **reducing reindexing time from 30 to 12 mins on staging**, and **45 to 18 mins on production**, enhancing reliability and fault tolerance of search features.

ATLASSIAN

Software Engineer Intern

June 2023 – July 2023

Bangalore, India

- Developed a **codemod script using JSCodeshift** to replace **Immutable.js** lists with native JavaScript arrays across the codebase, resulting in a **1% reduction in bundle size** and improved application performance.
- Secured 15 backend API endpoints** by implementing missing authentication layers, **preventing unauthorized access** and aligning the service with best practices in **backend security and access control**.

TECHNICAL SKILLS

Languages & Frameworks: C++, Java, Kotlin, Python, Go, TypeScript, JavaScript, Springboot, Flask, FastAPI, Node.js, Express.js, Langchain, DSPy, Model Context Protocol (MCP), OpenTelemetry

Databases & Developer Tools: PostgreSQL, Qdrant, MongoDB, Redis, PostGIS, Typesense, Git, Unix, Firebase, Docker, Postman

Technologies: Celery, Kafka, KStreams, RabbitMQ, Lambda, Flink, k6, Screaming Frog, Signoz, Phoenix, Prefekt, BoundaryML, AWS
AI Tools: OpenAI, Anthropic Claude, Google Gemini

Core Competencies: Data Structures and Algorithms, Competitive Programming, Computer Networks, Object Oriented Programming, System Design, DBMS

ACHIEVEMENTS

- Winner of WTFuturexAI hackathon** organised by **EDRA Labs**.
- Semifinalist at Code to Care hackathon** organized by Philips.