Mohit Paddhariya

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Technical Skills

Languages	Python, TypeScript, JavaScript, C/C++, SQL, PHP, HTML, CSS
AI & ML	PyTorch, Transformers, LangChain, LangGraph, PEFT, RAG, Gemini AI, vLLM, Ray
Frontend	React.js, Next.js, Tailwind CSS, Bootstrap, HTML5, CSS3
Backend	Node.js, Express.js, FastAPI, Laravel, RESTful APIs
Databases	PostgreSQL, MongoDB, MySQL, Redis, Firebase, Supabase, Pinecone, FAISS, Qdrant
DevOps & Cloud	Docker, Kubernetes, AWS, Google Cloud, Azure, Git, CI/CD, Vercel, Modal
Big Data	Apache Spark, Databricks, Hadoop, Kafka, Flume
Tools & Libraries	OpenCV, BeautifulSoup, Selenium, Pandas, Poetry, WebRTC, Socket.io, Editor.js

Experience

Full Stack & Gen-AI Developer Intern *Bengaluru, IN*
Cognitive Lab ↗ *Jun 2025 – Nov 2025*

- Spearheaded GitViz repository visualization platform that **reduced code comprehension time by 70%** through interactive dependency graphs and AI-powered chat interface.
- Deployed serverless OCR API with vLLM on Modal, implementing async job queues and GPU-accelerated batch inference to **process 100+ documents concurrently with 3x faster throughput**.
- Engineered full-stack OCR platform with auto-scaling GPU infrastructure, Redis caching for **40% faster repeat requests**, and multi-page PDF processing with layout detection.

Full Stack Developer Intern *Ahmedabad, IN*
Immersive Mobile Designs ↗ *Nov 2023 – Apr 2024*

- Delivered enterprise solutions for **3 clients** achieving **sub-200ms API response times** and remediating **90% of security vulnerabilities** in SonarQube audit.
- Developed Java Android application with PHP backend that **increased daily active users by 45%** through push notifications and real-time data sync.
- Transformed **15+ Figma designs** into pixel-perfect responsive web interfaces using Laravel Blade and Bootstrap.

Freelance Full Stack Developer *Remote*
Self-Employed *Jan 2022 – May 2025*

- Delivered full-stack applications for **5+ businesses**; built Laravel inventory system that **reduced manual data entry by 60%**.
- Engineered two React Native health apps enabling **50+ clinicians** to conduct digital assessments and generate PDF reports.
- Launched corporate portfolio website achieving **95+ Lighthouse score** and improving conversion rate by **30%**.

Open Source Contributions

- **Apache Beam**: Expanded test coverage for `sql` package from **35% to 75%** by authoring comprehensive unit tests. (PR #33711) ↗
- **Monkeytype**: Elevated type safety by refactoring JSON parsing to use Zod schema validation, **reducing runtime errors**. (PR #6207) ↗
- **Open Library**: Accelerated page load times by **40%** through lazy-loading implementation; extended backend data pipeline. (PR #10354 ↗, PR #10383 ↗)

Projects

ERly: AI-Powered Database Design Assistant ↗ **Next.js, FastAPI, LangGraph, PostgreSQL, Redis**

- Built open-source platform that **transforms natural language** into ER diagrams and production-ready SQL DDL scripts with optimized indexes.
- Orchestrated multi-agent workflow with LangGraph; implemented event-driven architecture with Celery workers, **SSE streaming**, and BYOK support.

PullPeek: AI Presentation Generator ↗ **Next.js, FastAPI, Gemini AI, MongoDB**

- Pioneered GenAI tool that transforms GitHub PRs into Slidev presentations, **reducing demo prep time by 80%**.

QuickDrop: P2P File Transfer ↗ **React, Node.js, WebRTC, Socket.io**

- Engineered P2P file transfer app using WebRTC with **end-to-end encryption** and **10MB/s+ speeds**.

Education

P.E.S University, Bengaluru, IN   *Aug 2024 – May 2027*
Bachelor of Technology in Computer Science
- CGPA: 7.31/10

R.K. University, Rajkot, IN   *Jul 2021 – Apr 2024*
Diploma in Computer Science
- CGPA: 9.35/10

Leadership & Achievements

- **Technical Head, Nexus Club** at PES University – Coached **50+ students** for national hackathon and led technical project evaluation.
- Awarded **Student of the Year 2022** at R.K. University for academic excellence (**9.35 CGPA**) and technical contributions.