

YASH BAVADIYA

Surat, Gujarat

+91-9879163975 [krebavadiya11@gmail.com](mailto:krbavadiya11@gmail.com) [Portfolio](#) [LinkedIn](#) [GitHub](#) [LeetCode](#)

EDUCATION

Indian Institute of Technology, Jodhpur

Aug 2024 – Jul 2028

Bachelor's Degree - Computer Science and Engineering - CGPA - 7.21

Jodhpur, Rajasthan

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, MySQL

Technologies/Frameworks: React, Next.js, Express, Prisma, Qt (C++), PostgreSQL, MongoDB, Redis, WebSockets, WebRTC, Firebase, Docker, Linux/UNIX environments, Relational Databases, REST APIs, TCP/IP

Tools: Git, Nginx, GitHub Actions, Vercel, Postman, VS Code

EXPERIENCE

Google Summer of Code 2026

May 2026 – Aug 2026

Kdenlive @KDE Community | Open Source Contributor, C++ and Qt

Remote

- Selected for **GSoC 2026** among 1,200 global contributors; implementing Kdenlive's **RGB curve editor, gradient editor, and speed ramp widgets** in C++ and Qt under lead maintainer Jean-Baptiste Mardelle.
- Merged **20 contributions** across Kdenlive, KDE Documentation, and MLT upstream; resolved an **11-year-old bug** via a union-of-intervals gap-detection algorithm shipping to **more than 41,000 monthly Flathub installs**.

Undergraduate Researcher

Jul 2025 – Nov 2025

Indian Institute of Technology, Jodhpur | Supervisor: Dr. Pratik Mazumder

IIT Jodhpur

- Developed a **fully offline RAG pipeline** integrating FAISS vector search with 4-bit quantized Phi-3 and Flan-T5-XL; fine-tuned model **outperformed base on all 8 ROUGE metrics**, achieving **+71.77% average improvement**.
- Achieved **3 to 10 second query latency** on 50 to 300 page PDFs; deployed to **more than 15 IIT Jodhpur students** during semester exams across 3 feedback-driven chunking iterations.

PROJECTS

Peek-a-Repo | [GitHub](#) | [Web Store](#) | TypeScript, GitHub GraphQL API, Webpack

Feb 2026 – May 2026

- Published a Chrome extension on the Web Store rendering GitHub file contents inline on hover via GraphQL API and DOM injection; **88% month-over-month growth** in store views across US, Japan, and India.
- Implemented SHA-keyed cache with debounced fetch maintaining GitHub's **5,000 requests per hour** rate limit; **5 weekly active users** across Windows, Linux, and macOS with zero reported bugs.

DaemonDoc | [GitHub](#) | [Live](#) | TypeScript, Express, MongoDB, Redis (BullMQ), Docker

Jan 2026 – May 2026

- Automated README generation on every git push via GitHub Webhooks; **50 users, 68 active repositories, 959 automation runs** at **85% success rate**; live at daemondoc.online with Razorpay subscription billing.
- Architected a Redis (BullMQ) job pipeline with exponential backoff and 3-attempt fault tolerance; reduced per-repository token cost by **70%** by filtering irrelevant source files before prompt construction.

IITJ PHC System | [GitHub](#) | Node.js, Express, PostgreSQL, Prisma, JWT, LDAP, Docker

Jan 2026 – Apr 2026

- Led backend architecture in a 3-member team; replaced IIT Jodhpur PHC's paper-based workflow with a permission-based platform: **6 roles, 63 endpoints, 20 database models, 2,505 lines of code** with JWT and LDAP dual authentication across 7 Scrum sprints.
- Validated reliability via **48 test cases**, a 59-check smoke suite, and load tests at **20 concurrent users**; approved by professor for production deployment projecting **4 to 5 staff-hours saved per day**.

COURSEWORK

- Data Structures
- Algorithms
- Software Engineering
- Pattern Recognition
- Machine Learning
- Discrete Mathematics
- Probability
- Statistics and Stochastic Processes
- Human Machine Interaction

ACHIEVEMENTS

- JEE Advanced 2024: **AIR 3449**; JEE Main 2024: **99.65** percentile, **AIR 5680**.
- Completed **Hacktoberfest 2025** with 6 merged pull requests across open-source repositories including Wagtail; received official completion kit.
- Bharti Airtel Scholar 2024** at IIT Jodhpur.

LEADERSHIP

- Junior Core Team Member** at DevUp Labs, IIT Jodhpur; contributed to open-source mentorship and workshops.
- Core Member** at E-Cell, IIT Jodhpur; supported entrepreneurship events and initiatives over 9 months.
- Core Member** at Programming Club, IIT Jodhpur; co-organized contests and sessions on competitive programming.