

# Rachit Pednekar

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## Skills

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**Programming Languages:** Java, Python, C/C++, JavaScript, TypeScript, SQL, NoSQL, HTML/CSS

**Frameworks & Technologies:** Spring Boot, Spring MVC, Spring Data JPA, Spring Security, React.js, Next.js, Node.js, Express.js, Flask, Tailwind CSS, Prisma, Zod, Recoil, Streamlit, Redux, LangChain, LangGraph, pandas, NumPy, scikit-learn, PyTorch

**Database & DevOps:** MySQL, PostgreSQL, MongoDB, Redis, Docker, Kubernetes, AWS, Firebase, Cloudflare Workers, Prometheus, Grafana, Nginx, Kafka

**Version Control:** Git, GitHub

**Methodologies:** RESTful API Design, Microservices, MVC Architecture, Object-Oriented Programming (OOP), Test-Driven Development (TDD), CI/CD, Agile/Scrum

## Experience

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### Software Development Engineer, Remote

Nov 2022 — Dec 2023

*ITJOBSXS*

*Mumbai, India*

- Designed and developed a fully responsive QNA web portal using HTML, CSS, JavaScript, Bootstrap, PHP, MySQL, improving user engagement and reducing bounce rate by 30%.
- Implemented advanced bot-detection mechanisms (domain-based filtering and Google reCAPTCHA) to eliminate fake account creation, cutting spam database entries by 95% and extending server efficiency.

### Machine Learning Engineer Intern, Remote

Jun 2022 — Sep 2022

*CodeWind Technologies*

*Manila, Philippines*

- Engineered a crime rate prediction model for India and the USA using K-means clustering on 10,000+ Kaggle records, improving hotspot detection accuracy by 41% and enhancing risk-based decision-making.
- Enhanced clustering coherence by 22% and accelerated geospatial analysis time by 40% by implementing Python (pandas, NumPy) clustering with silhouette analysis and creating interactive regional crime maps in Google Outreach Maps

### Full Stack Developer Intern

Jan 2021 — Apr 2021

*Laxmi Industries Private Limited*

*Mumbai, India*

- Developed an inventory management system for the company's workshop and storage facility using React.js, Node.js, and MongoDB, reducing stock discrepancies by 35% through real-time inventory tracking.
- Led migration of company website from PHP to a React.js frontend with Node.js/Express and MongoDB, improving performance and page-load speed by 50% by implementing RESTful APIs, optimizing NoSQL data models/queries, and containerizing services with Docker and GitHub CI/CD

## Education

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### Concordia University

*Master of Engineering, Software Engineering*

Montreal, Canada

Sep 2023 — May 2025

### Vasantdada Patil Pratishthan's College of Engineering

*Bachelor of Computer Engineering*

Mumbai, India

Aug 2019 — May 2023

## Projects

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### CloudShare | React, Spring Boot 3, MongoDB

Oct 2025 — Present

- Implemented secure file-management platform that increased authenticated uploads/downloads 30% and cut user onboarding time 50%, by building a React frontend and Spring Boot 3 backend with Clerk- and JWT-secured APIs, automatic profile creation and role-based access, Stripe Checkout credit-based upload workflow with webhook verification, deployed on Vercel/Render and MongoDB

### Splitr | Next.js, Convex, Gemini API

Aug 2025 — Sep 2025

- Implemented an AI-powered expense-sharing platform, reducing time-to-settlement by 40% and improving reconciliation accuracy by 30% by integrating Clerk authentication, a Convex backend, automated Inngest/Resend/Gemini reminders and insights, and a responsive Tailwind CSS/Shadcn UI dashboard

### CURSORCLI | Node.js, TypeScript, Gemini API

Jul 2025 — Aug 2025

- Developed an AI-powered CLI that automated software project initialization, reducing setup time by up to 70% and enabling ~5x faster prototyping, by integrating LLM-based decision logic to generate validated project structures, configuration files, and CI/CD-ready execution scripts across multiple technology stacks.