

# Rachit Rajesh Pednekar

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## EDUCATION

### Concordia University

*Master of Engineering, Software Engineering*

### Vasantdada Patil Pratishthan's College of Engineering

*Bachelor of Computer Engineering*

Montreal, Canada

Sept 2023 – May 2025

Mumbai, India

Aug 2019 – May 2023

## EXPERIENCE

### ITJOBSXS

Nov 2022 – Dec 2023

*Software Development Engineer, Remote*

*Mumbai, India*

- Designed and developed a fully responsive Q&A 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.

### CodeWind Technologies

June 2022 – Sept 2022

*Machine Learning Engineer Intern, Remote*

*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.
- Optimized clustering performance using **Python (pandas, NumPy)** and **silhouette analysis**, boosting model coherence by **22%** and reducing preprocessing overhead.
- Visualized regional crime patterns using **Google Outreach Maps**, reducing analysis time by **40%** and delivering actionable geospatial insights to stakeholders.

### Laxmi Industries Private Limited

Jan 2021 – April 2021

*Full Stack Developer Intern*

*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.
- Contributed to the company's website migration from a traditional **PHP** architecture to a modern stack using **React.js** (frontend), **Express.js** and **Node.js** (backend), and **MongoDB**, improving performance and page load speed by **50%**.
- Implemented **RESTful APIs** and optimized database operations using **NoSQL** design principles; utilized **Docker** for containerization and **GitHub** for version control and deployment workflows.

## PROJECTS

### Splitr Website | Source Code | *Next.js, Convex, Gemini API*

Aug 2025 – Present

- Developed an AI-powered **Splitwise clone** with expense tracking, group management, and settlements.
- Integrated **Clerk** auth, **Convex** backend, and automated reminders/insights via **Inngest**, **Resend** & **Gemini**.
- Built a responsive dashboard with **Tailwind CSS** & **Shadcn UI** for a modern user experience.

### CURSORCLI Source Code | *Node.js, TypeScript, Gemini API*

Jul 2025 – Aug 2025

- Developed an AI-powered CLI tool to generate, structure, and launch web/software projects using natural language commands with the **Gemini API**.
- Automated full project workflows for **HTML**, **Python**, **React**, and **Node.js**, including file creation, structure validation, and local execution.
- Enhanced UX with animated terminal feedback, interactive confirmations, and AI-assisted debugging flows.

### IShowSpeedAI Website | Source Code | *Streamlit, OpenAI GPT-4o, Python*

May 2025 – Jul 2025

- Built and deployed a chaotic, high-energy chatbot emulating **IShowSpeed** using **GPT-4o** with memory-based dynamic conversations.
- Crafted an animated **Streamlit** UI with glowing effects, custom avatars, and immersive fan-focused design.
- Optimized app performance for real-time interaction and viral shareability among niche communities.

### Java Warzone Simulator Source Code | *Java, Swing/JavaFX, Design Patterns, OOP*

Sept 2023 – Dec 2023

- Engineered a turn-based combat simulator in **Java** using **OOP** and **MVC**, enabling strategic army deployment and modular gameplay.
- Implemented a heuristic-based **AI opponent** using the Strategy pattern to enhance solo play and replayability.
- Designed an intuitive command line UI in **Swing/JavaFX** with real-time map updates.

## TECHNICAL SKILLS

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

**Frameworks/Libraries:** React.js, Next.js, Node.js, Express.js, Flask, Tailwind CSS, Prisma, Zod, Recoil, Streamlit

**Tools/Platforms:** Git, GitHub, Docker, Kubernetes, AWS, Firebase, Cloudflare Workers, NeonDB, Prometheus, Grafana, Nginx, Redis, Kafka