

Prathamesh Kothalkar

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EDUCATION

SPPU

B.E IN INFORMATION TECHNOLOGY
JUN 2027 | Pune, India
Zeal College of Engineering & Research,
Pune
CGPA: 8.46/10

MSBTE

DIPLOMA IN COMPUTER SCIENCE
JUN 2024 | Jalgaon, India
Government Polytechnic Jalgaon
Percentage: 87.14%

LINKS

Github: [Prathamesh-Kothalkar](#)
LinkedIn: [prathamesh-kothalkar](#)
Leetcode: [prathamesh_kothalkar](#)
HackerRank: [prathameshkotha4](#)
GeeksForGeeks: [pkothalkar0688](#)

COURSEWORK

UNDERGRADUATE

Machine Learning
Computer Networks
Operating Systems
Artificial Intelligence + Practicum
Database Management System
Object-Oriented Programming (OOP's)

SKILLS

PROGRAMMING

Over 5000 lines:
Java • Python • Javascript
Typescript •
Over 1000 lines:
C • C++ • CSS
Familiar:
SQL • Bash • Assembly

FRAMEWORKS & TOOLS

Framework
React.js • Node.js • Express.js • Next.js •
Prisma ORM, • Tailwind CSS Tools
Linux • Git • GitHub • Docker • Redis •
Android, • Postman

DATABASES

SQL
MySQL • PostgreSQL • Oracle DB
NoSQL
MongoDB

EXPERIENCE

AREVEI | SOFTWARE ENGINEERING INTERN

Aug 2024 – May 2025 | Delhi, India

- Developed an admin dashboard to manage products, orders, and user data, improving operational workflow efficiency by 45%.
- Implemented secure user authentication and role-based access control using JWT and middleware, enhancing system security by 50%.
- Optimized search functionality using MongoDB indexing, aggregation pipelines, and debounced API calls, reducing the average query response time from 3.5 to 2.0 s.
- Integrated advanced product filtering and full text search with unreported API calls, decreasing search time by 50%.

PERSONAL PROJECTS

COLLEGE RECOMMENDATION SYSTEM WITH GENAI [GITHUB](#) | [LIVE](#)

NEXT.JS | TYPESCRIPT | PRISMA ORM | POSTGRESQL | TAILWIND CSS |
GOOGLE GEMINI(GEN AI)

- Built a GenAI-powered college recommendation system using **Next.js (TypeScript)** and **PostgreSQL**, delivering personalized college matches based on scores, category, and preferences.
- Designed and integrated a GenAI-based ranking model that improved recommendation accuracy by 40%, reduced user search effort by 50% and boosted satisfaction scores by 35%.
- Engineered backend APIs with **Next.js API Routes**, **Prisma ORM**, and **PostgreSQL**, enabling scalable filtering, querying, and data persistence.
- Implemented Redis caching for college summary data, reducing API response time by 40% and external API calls by 70%, resulting in faster user experience and lower server costs.

COLLABORATIVE REAL-TIME WHITEBOARD | [GITHUB](#)

REACT.JS | EXPRESS.JS | SOCKET.IO | FABRIC.JS | KEYCLOAK

- Built a scalable, real-time multi-user whiteboard enabling simultaneous drawing and annotation for up to 30 users.
- Engineered **WebSocket communication** with **socket.IO** to support live cursor tracking, session management, and canvas synchronization between distributed clients.
- Integrated advanced drawing tools such as **undo/redo**, **eraser**, **custom brushes**, **text annotations**, and **image export**, improving interactivity and creative flexibility.
- Boosted team participation during collaborative design reviews by 60% through live cursor tracking and instant feedback mechanisms.

PUBLICATIONS & AWARDS

- Hackathon Winner:** 1st place – Developed a Course Enrollment System in a college hackathon (10+ teams).
- Technical Author:** Published "Optimize Search Queries in Your Next.js and Node App" on Medium.
- Competitive Programming:** Solved 350+ DSA problems across LeetCode, GFG, and HackerRank (5-star Java).