

ASHISH PATIL

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SUMMARY

Third-year Computer Engineering undergraduate with strong foundations in Data Structures & Algorithms, Object-Oriented Programming, and Software Engineering. Passionate about building real-time, scalable full-stack applications and exploring research-driven solutions using modern web technologies and AI. Strong problem solver with hands-on experience in competitive programming and designing interactive, responsive, and modern user interfaces.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, SQL

Frontend: React.js, Next.js, TypeScript, Tailwind CSS, Framer Motion

Backend: Python (FastAPI), Node.js, WebSockets

Database: MySQL, MongoDB, Firebase

Tools & Platforms: Git, GitHub, Vercel and VS Code

Relevant Coursework: DSA, DBMS, OOP, Machine Learning

PROJECTS

BGC – BattleGround for Coders | React.js, Node.js, Firebase, Tailwind CSS

Jan 2026 - Present

- Real-time **1v1 coding battles** with difficulty-based matchmaking (Easy/Medium/Hard), random and friend challenges, and private room creation.
- ELO-based rating system** with global and friends-only leaderboards, detailed match history, win-loss statistics, and performance analytics.
- Live battle environment** with synchronized countdown timers, in-browser code editor, real-time code submission and evaluation, secure user authentication, and persistent storage of user profiles and match history.

HuMaan – Mental Wellness Companion | React.js, Python, Gemini API

Sep 2025

- Designed and developed a full-stack web application to support student mental wellness through structured evaluations, goal tracking, and progress monitoring.
- Implemented backend APIs for quiz evaluation, personalized goal generation, and real-time chatbot interaction, focusing on clean request-response flows and maintainable business logic.
- Integrated frontend components with backend services to deliver a smooth, data-driven user experience.

CET Buddy – MHT-CET College Predictor | HTML, CSS, JavaScript, Python

July 2025

- Built a data-driven web application using historical MHT-CET cutoff data, **processing 54,000+ data entries** to predict suitable colleges for aspirants.
- Implemented efficient filtering and search logic to handle multiple user-defined criteria, improving prediction accuracy and reducing manual research effort.
- Focused on responsive UI design and structured data handling to ensure usability, performance, and scalability.

RESEARCH

Academic Certificate Verification using AI and Blockchain

Nov 2025 - Present

- Building an OCR + CNN pipeline for automated academic certificate forgery detection.*
- Designing a blockchain-based hash anchoring system for tamper-proof verification.*
- Proposing a scalable, real-time architecture for nationwide credential validation.*

EDUCATION

Pimpri Chinchwad College of Engineering

Pune, Maharashtra

Bachelor of Technology (B.Tech) in Computer Engineering | CGPA: 7.75

08/2023 – Present

ACHIEVEMENTS

- Solved **350+ DSA** problems on [Leetcode](#), [Codechef](#) and [Codeforces](#) reflecting consistent competitive programming practice and strong problem-solving skills.
- Finalist, Top 50**, Amalthea Hackathon (IIT Gandhinagar x Odoo) competing among teams nationwide.