

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. Experienced in building real-time, scalable full-stack web applications using modern web technologies, with a strong focus on clean architecture and performance. A proactive problem solver with hands-on experience in competitive programming, driven to solve real-world problems through well-structured, maintainable systems.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++, C

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

Backend: Node.js, Express.js, FastAPI, REST APIs, WebSockets

Database: PostgreSQL, MySQL, MongoDB, Firebase

Tools & Platforms: Git, GitHub, n8n (Workflow Automation), Vercel, Figma

Relevant Coursework: DSA, DBMS, OOP, Operating Systems, Computer Networks, Machine Learning

PROJECTS

BGC - BattleGround for Coders | Next.js, React.js, Node.js, Firebase

Jan 2026 - Present

- Developed a **real-time full-stack web application** using **Next.js and React.js** for frontend and **Node.js** for backend APIs, focused on competitive coding battles.
- Designed and implemented **scalable backend logic** for matchmaking, ELO rating calculation, and match history persistence using **Node.js**.
- Integrated **Firebase Authentication and database services** to ensure secure login, session handling, and reliable data storage.

Santulan AI - Wellness & Productivity Platform | React.js, Node.js, Firebase, n8n

Dec 2025

- Built a **production-style full-stack web application** using **React.js** and **Node.js** to manage personalized user routines and productivity workflows.
- Implemented **secure authentication, database schema design, and API integrations** using **Firebase**, ensuring data consistency and reliability under concurrent users.
- Automated reminders, notifications, and task workflows using **n8n**, significantly reducing manual intervention and improving execution speed.

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

July 2025

- Built a data-driven college prediction web application using **Python-based statistical analysis**, processing 54,000+ historical MHT-CET cutoff records to suggest suitable colleges for aspirants.
- Implemented **efficient filtering and search algorithms** in **JavaScript and Python** to handle multiple user-defined criteria, significantly reducing manual research effort and improving prediction relevance.
- Focused on **structured data handling, performance optimization, and scalability**, enabling reliable predictions even with large datasets.

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