

# 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 x Odoo) competing among teams nationwide.