

AMIT PATIL

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SUMMARY

Full-Stack Developer and CS student at DES Pune University with hands-on experience building production-grade web applications using MERN stack, and REST APIs. Strong foundation in DSA and OOP in C++. Seeking a backend or full-stack internship to ship real features and grow within an engineering team.

TECHNICAL SKILLS

Languages	HTML5, CSS3, JavaScript, React, Java, C, C++
Backend	Node.js, Express.js, REST APIs, Passport.js, MVC, Session Auth
Database	MongoDB (Mongoose), SQL
Tools	Git, GitHub, npm
CS Concepts	Data Structures & Algorithms, OOP, DBMS

PROJECTS

Intera — AI-Powered Technical Interview Platform

[Github Link](#) | [Live Demo](#)

React · Node.js · Socket.io · WebRTC · Monaco Editor · Yjs (CRDT) · Glot.io

- Enabled **real-time collaborative coding** for interview participants working in the same session with zero merge conflicts, by integrating Monaco Editor with Yjs CRDT synchronization over WebSocket connections.
- Maintained **reliable multi-language code execution** after a third-party API access change broke the existing pipeline, by re-architecting the sandboxed execution layer and migrating from Piston to Glot.io with minimal service disruption.
- Delivered **one unified live-interview experience** combining video, chat, and collaborative code review in a single session, by architecting a full-stack system pairing WebRTC video conferencing with real-time editor sync on a Node.js backend.

Hostara — Full-Stack Property Rental Platform

[Github Link](#) | [Live Demo](#)

Node.js · Express · MongoDB · EJS · Passport.js · HTML/CSS/JavaScript

- Architected a full-stack rental platform with **5+ RESTful API routes** and a MongoDB-backed data layer, enabling complete CRUD operations for property listings — including creation, editing, deletion, and paginated browsing — using a clean MVC structure to separate business logic from routing and views.
- Built a fully mobile-responsive frontend using EJS server-side rendering, dynamically injecting live MongoDB data into templates via Express route handlers to ensure consistent, real-time UI across all listing and booking views on any device.
- Secured the application end-to-end with Passport.js authentication, middleware-enforced role-based authorization, and session-based listing ownership verification — preventing unauthorized edits and providing user-friendly flash-message feedback on all error states.

Food Delivery System — Console-Based Order Management

[Github Link](#)

Java · OOP · Data Structures · PriorityQueue · LinkedList

- Eliminated **cross-module dependencies** and simplified future feature additions, by designing a modular OOP system in Java with 3 decoupled modules (menu, orders, delivery) following encapsulation and single-responsibility principles.
- Achieved **efficient order scheduling** without over-engineering, by selecting purpose-fit data structures — a PriorityQueue for $O(\log n)$ priority dispatch and a LinkedList for $O(1)$ standard-order queuing — across the full order lifecycle from menu browsing to delivery confirmation.

EDUCATION

B.Tech Computer Science — DES Pune University

CGPA: 6.69 | Expected 2028

XII (KSEAB) — Shri Channabasaveshwar Gurukul

83% | 2024