

Prathmesh Upadhyay

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SUMMARY

Computer Science undergraduate with a strong technical foundation in full-stack architecture, seeking to transition into Product Management. Experienced in managing the end-to-end product lifecycle, translating business requirements into scalable features, and utilizing data analytics to identify user friction points. Adept at cross-functional collaboration and optimizing operational workflows to deliver user-centric software solutions.

EDUCATION

Vellore Institute of Technology
B.Tech in Computer Science and Engineering
CBSE Board
Senior Secondary (12th) & Secondary (10th)

Bhopal, India
2022 – Present
Delhi, India
2020 – 2022

EXPERIENCE

Product Engineering Intern

Remote

Mentaive (Startup)

Dec. 2025 – Present

- Spearheaded the end-to-end development of a timed assessment platform, translating business requirements into technical deliverables using the MERN stack.
- Designed and launched a performance analytics dashboard to process student data, reducing manual reporting overhead by 40% and providing actionable insights to stakeholders.
- Improved user retention and exam completion rates by implementing automated SendGrid email reminders and scheduling background tasks via Node-cron.
- Conducted root cause analysis on platform latency, optimizing backend middleware and schemas to significantly improve end-user response times during peak exam windows.

PROJECTS

GrabASeat | Full Stack Event Booking Platform

Nov. 2024 – Feb. 2025

- Managed the product lifecycle of a real-time event reservation system, focusing on resolving concurrent access friction for end-users.
- Ensured a seamless customer booking experience and prevented customer service escalations by designing logic (Atomic Transactions) to eliminate double-booking.
- Defined user journeys and implemented Role-Based Access Control (RBAC) to provide tailored and secure interfaces for Admins and regular users.
- Analyzed database bottlenecks and improved query performance by 30% using Compound Indexing.

StartupBoost | B2B SaaS Marketplace

Mar. 2025 – May 2025

- Architected a 3-tier B2B SaaS platform to solve enterprise digital asset provisioning and streamline vendor management workflows.
- Defined the business logic for a backend entitlement engine, successfully gating high-value assets based on verified user tiers and IAM policies.
- Oversaw the deployment pipeline utilizing Docker and Kubernetes to ensure high availability and minimal downtime for enterprise clients.

Log Analytics & Security Monitor | C++ Security Engine

June 2025 – Aug. 2025

- Developed a high-performance threat detection product, optimizing log parsing to identify security anomalies in real-time.
- Utilized advanced data structures to build efficient rate-limit tracking, protecting the system from brute-force patterns and improving overall platform integrity.

TECHNICAL & PRODUCT SKILLS

Product Management: User Requirement Gathering, Root Cause Analysis, Agile/Scrum, Data Analytics, KPI Tracking

Languages: C++, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks/Libraries: React.js, Next.js, Node.js, Express.js, Socket.io, Tailwind CSS

Cloud/DevOps & Tools: Docker, Kubernetes, Linux, Vercel, MongoDB, Postman, Razorpay

Core Concepts: System Architecture, Data Structures & Algorithms, DBMS, OOPS

POSITIONS OF RESPONSIBILITY

Co-Lead iOS Club

VIT

Media and Content Creation

Oct. 2023 – Jan. 2024

- Led a cross-functional team to execute technical and cultural events, defining the media outreach strategy and content roadmap.
- Managed technical content creation and curated promotional materials, significantly enhancing the club's digital presence and user engagement.