

Prashant Dubey

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Summary

Software Engineer passionate about solving complex problems through scalable backend systems and AI-driven automation. Strong foundation in computer science fundamentals, with hands-on experience in React Native, system design, and full-stack development. Enthusiastic about building developer tools and AI-integrated platforms that improve development speed and user experience.

Education

Central University of Jharkhand, Ranchi
Bachelor of Technology in Computer Science

Aug 2023 – May 2027
CGPA: 8.50

Experience

- Software Developer Intern** — Palanam Technology, Delhi May 2025 – July 2025
- Applied software engineering principles to design and optimize backend systems, reducing API latency by **65%** using Redis caching and query optimization.
 - Implemented ML-powered analytics pipelines using Python, Pandas, and Django REST APIs.
 - Adopted new tools and best practices to enhance performance and maintainability across services.

Projects

MetaSpace — Metaverse Collaboration Platform GitHub — Live Demo
Backend Engineer — Node.js, TypeScript, PostgreSQL, Prisma, Redis, Kafka, WebRTC, Docker, Next.js

- Designed a metaverse platform enabling **real-time spatial video and chat** using WebRTC and WebSocket microservices.
- Architected a **distributed microservice system** with PostgreSQL, Redis (cache/pub-sub), and Kafka for event-driven communication.
- Built secure REST APIs with JWT authentication and integrated caching to enhance reliability.

Py-IDE — AI-Powered Python IDE & Function Flow Analyzer GitHub — Live Demo
Full-Stack Developer — Python, PyQt5, WebSocket, Gemini API, NetworkX, PyVis, Multithreading

- Developed a Python IDE with real-time flow analysis and interactive visualization using NetworkX & PyVis.
- Integrated Google Gemini API for intelligent code summarization, AI explanations, and smart context caching reducing code review time by **35%**.
- Designed a multi-terminal architecture with PTY support, real-time output streaming, and graceful process control.
- Implemented a Git version control integration.

TaskHive — Real-Time Task Manager GitHub — Live Demo
Backend Engineer — Node.js, MongoDB, Redis, WebSocket, JWT

- Implemented role-based access control and JWT-secured APIs for data privacy.
- Enabled scalable real-time task updates using WebSocket + Redis pub/sub.
- Optimized MongoDB aggregation queries, reducing task retrieval latency by **50%**.

Leadership & Responsibility

Joint Secretary, Code Crafters Programming Club (2024–2025)

- Led a community of **500+ members**, fostering collaboration through hackathons and coding challenges.
- Organized technical workshops on backend systems, DSA, and AI tools to encourage a growth mindset.
- Mentored 20+ students in algorithms, data structures, and project-based problem solving.

Achievements

- LeetCode Global Rank:** 654/30K+(Weekly Contest 473); **Rating: 1653 (Knight, Top 16%)**.
- Solved **300+ DSA problems** across LeetCode, Codeforces, and GFG.
- Secured **3rd institutional rank** on GeeksforGeeks coding leaderboard at CUJ, Ranchi.
- Top 10 finalist** among 500+ teams in National Hackathon Hackquibt.

Skills

Languages: JavaScript, Python, SQL, TypeScript, C++, Java(DSA)

Frameworks & Tools: Node.js, Express.js, Django REST, PyQt5, Redis, WebSocket, Docker, Prisma, Git
Databases: PostgreSQL, MongoDB, MySQL

Core Areas: Data Structures, Algorithms, System Design, WebRTC, AI APIs, Caching, Scalability

Concepts: OOP, Computer Networks, DBMS, Operating Systems

Fluent: English, Hindi

Licenses & Certifications

Core Data Analysis, Manipulation – Kaggle MTA: Introduction to Programming Using Python – Kaggle
Problem Solving – HackerRank Introduction to Programming Using Python – HackerRank
Certified Web Professional – Web Developer (CWP) – Udemy