Pranav Chaturvedi

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SUMMARY

Full-Stack & Backend Developer skilled in Node.js, TypeScript, React, REST APIs, microservices, and AWS. Experienced in system design and building scalable, secure, production-grade systems and real-time applications.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript, Bash, PL/SQL
Frontend: React.js, Next.js, HTML5, CSS3, Tailwind, Bootstrap, Three.js
Backend and Server-Side Development: Node.js, Express.js, REST APIs, Microservices, WebSockets, Webhooks, Redis, JWT, OAuth2, Load Balancing, Server-Side Architecture, Event-driven architecture, Job queues (BullMQ), Background workers, DLQ, Backoff
Database: MongoDB, MySQL, Oracle, Firebase
Tools: Git, GitHub, Docker, Postman, BullMQ, Docker Compose
Cloud: AWS (EC2, S3), CI/CD, Nginx, PM2, Cloud Deployment, Monitoring & Logging, Oracle Apex
Libraries: Axios, ShadCN, Material UI, Tailwind CSS, Bootstrap, Zustand, Redux, Lodash
Core Subjects: DSA, OOPs, OS, DBMS, Computer Networks, Cybersecurity

WORK EXPERIENCE

Accenture   *Gurugram*
Software Engineer   *OCT 2024 - April 2025*

- Engineered a **real-time chatbot** with automated URL-shortening, improving message readability and cutting average message length by 35%.
- Architected WebSocket-based message interception, delivering sub-**100ms** URL-shortening latency and **99.9%** uptime during peak usage.
- **Scaled** a fault-tolerant delivery pipeline using asynchronous processing, acknowledgements, and retries, achieving 98%+ successful delivery.
- **Designed** and streamlined REST APIs with a focus on API performance optimization for real-time WebSocket communication.
- **Deployed** services on AWS (EC2) and applied server-side monitoring to maintain high availability.

Unicraft Tech   *Gurugram*
Fullstack Developer   *NOV 2023 - OCT 2024*

- Orchestrated a collaborative **real-time code editor** (TS, Node.js, MongoDB, WebSockets) serving **1,500+ users** with **150ms sync latency**; integrated RBAC + version control for teams.
- Developed a scalable **resume parsing microservice using Node.js, Python, Express, and SpaCy NLP**—processed **10,000+ resumes with 95.6% field-level accuracy** for skills, education, and work history; deployed via Docker, enabled queue-based processing and asynchronous file handling to reduce resume-to-result latency by 42%.
- **Containerized services** using Docker and enabled AWS-based cloud deployment for seamless scaling.

PROJECTS

SuperFlow — Support Inbox + Workflow Automation SaaS (In Progress) - GitHub
Tech Stack: React, TypeScript, Node.js, Express, PostgreSQL, Redis (BullMQ), Docker   *JAN 2025*

- Building a **multi-tenant support inbox SaaS** with organization-based access control and role-based permissions (Admin/Agent).
- Implemented **ticketing APIs** (create/update/assign/close) with search, filtering, and pagination for scalable inbox workflows.
- Designing a **rule-based automation engine (IF/THEN)** to auto-triage tickets (auto-assign, tag, set priority) triggered by events like ticket creation/message received.
- Integrating **asynchronous background workers** using Redis queues to execute automations reliably and decouple UI actions from processing.

Distributed Notification & Event Processing System - GitHub
Tech Stack: Node.js, TypeScript, Redis (BullMQ), MongoDB, Docker, Express   *DEC 2025*

- Built an **event-driven architecture for a notification platform** using asynchronous queues to process and deliver multi-channel notifications.

- Crafted a **notification orchestrator** with background workers to resolve user preferences and route events to channel-specific services.
- Inserted **retry mechanisms featuring exponential backoff and dead-letter queues**, enhancing system reliability and fault tolerance, resulting in a 40% decrease in failure rates during peak processing hours.
- Exposed monitoring APIs to track delivery status, failures, and queue metrics for observability.

AutoApply - GitHub

Tech Stack: ExpressJs, NodeJs, Mongodb, Docker   *AUG 2025*

- Constructed an optimised backend in TypeScript and Express.js to scrape and aggregate job listings from Naukri, LinkedIn, and Glassdoor using skill-based queries.
- Integrated MongoDB for storage and Redis CLI for caching, **reducing API response times** by up to 60% and boosting throughput under high load.
- Automated **cron-based job scheduling** and intelligent retry mechanisms, maintaining 99%+ data freshness across all platforms.
- Formulated scalable REST API architecture with efficient routing, caching, and server-side processing.

Devender - GitHub

Tech Stack: Node.js, MongoDB, Express.js, React, JWT, Docker   *Jun 2024*

- **Created** a scalable MERN stack web application for developer networking—supported **5,000+ concurrent users** with 99.9% uptime via a microservices-based backend.
- **Devised** a secure authentication system with JWT, cookies, and bcrypt.js; implemented RBAC and middleware to reduce unauthorised access attempts by **95%+**.
- **Enhanced** backend efficiency using advanced MongoDB queries, compound indexing, and enhanced pagination—achieved **50% faster** load times and **40% more accurate** match suggestions.
- **Enforced** microservices-based backend with secure API design and optimized database performance.

EDUCATION

NIET   *Greater Noida*

Bachelor of Technology - Computer Science   *OCT 2020 - MAY 2024*

ACHIEVEMENTS AND CERTIFICATIONS

- Finalist Smart India Hackathon.   Link
- 4+ Hackathons Winner.
- Solved **300+ DSA Questions** on platforms like LeetCode, GfG, and Codechef.
- IBM **Cybersecurity Analyst** certification at Coursera.
- Achieved **Certified Ethical Hacker** certification at Ec-council.
- Achieved **Reactjs** certification at Infosys.
- Achieved **NodeJs ReactJs** certification at Coursera.
- Achieved **7.0** band in IELTS General Test IELTS.