Pranav Gupta

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SUMMARY

Full Stack Software Engineer with 4+ years of experience specializing in **MERN** stack but adaptable to diverse technologies. Skilled in **Frontend** and **Backend** development, scalable architectures, and performance optimization. Passionate about **solving business problems**, building **impactful products**, and driving innovation through collaboration.

WORK EXPERIENCE

Shvasa (Product Based Startup) **Delhi**
FullStack Engineer *Feb '24 – Present*

- **Developed** a **Scalable Class Recommendation Engine for 100K+ users**, increasing bookings by 40% and **retention by 12%** through algorithm-driven personalization and weighted scoring.
- Led a full website & app **rebranding and revamp**, implementing a mobile-first design, boosting **Core Web Vitals by 15%**, and increasing **mobile engagement by 30%.**
- Architected an **Event-Driven Microservices** System with asynchronous processing and distributed caching**, reducing server load by 60%** and improving response times by 25%.
- **Optimized dashboard performance** with lazy-loading (Intersection Observer API) and TanStack Query caching, reducing API calls by **55%** and improving page speed using **Concurrent Rendering & Memoization.**
- **Mentored junior engineers**, improving code quality, cutting redundant code by 20%, and speeding up **feature delivery by 25%.**
- Drove UX and engagement **optimizations** through **A/B testing, performance tracking**, and **data-driven design decisions**, collaborating with Product, Design, and Marketing teams.

TechJockey **Delhi**
Software Development Engineer *Nov '22 – Oct '23*

- Built an **Enterprise CRM Builder Tool**, cutting future **development time by 70%** and enabling **dynamic workflow** customization, improving sales funnel efficiency.
- **Standardized API** integrations (Microsoft, Amazon, HubSpot), **eliminating 30% of redundant endpoints**, enhancing API maintainability and system efficiency.
- Implemented skeleton loaders & **optimistic UI updates**, improving **perceived speed** of the app and reducing **user drop-offs by 20%** during high-traffic hours.
- Implemented a **Real-Time Dynamic Pricing** System, integrating user behavior analytics, increasing **ARPU by 10%.**

Tata Consultancy Services **Gurugram**
Assistant System Engineer *Oct '21 – Oct '22*

- **Engineered high-throughput APIs** for FinTech platforms, achieved **99.99% uptime**, processed over **1 million transactions per month**, and integrated with secure financial ecosystems.
- Integrated **AI-driven KYC & Fraud Detection Systems**, automating verification, reducing manual effort by 40%, and **preventing $500K+ in annual fraud losses**.
- **Optimized** database queries and **indexing** strategies, reducing **query execution time by 40**% (from 250ms to ~150ms) and improving **API response times by 25%.**

ACHIEVEMENTS

- Optimized system performance and resource allocation at Shvasa**, reducing server costs by 20%.**
- **Received STAR Award at TCS** for exceeding expectations in system security and fraud prevention enhancements.

PERSONAL PROJECTS

- **NetraNav AI** [URL] – Built an **AI-powered screen analysis tool**, used by **500+ users** to enhance digital accessibility.
- **Imagitor** [URL] – Developed an **online image editing platform** using, optimizing real-time image processing.

EDUCATION

Guru Gobind Singh Indraprastha University **Delhi**
Bachelor of Technology (Computer Science Engineering) *Graduation Date: June 2021*

SKILLS

Backend: Node.js, Express.js, MongoDB, Postgres, SQL, Redis, RabbitMQ, WebSockets, CRONs
Frontend: React, Next.js, Redux, Zustand, EJS, HTML, CSS, Material UI, Tailwind CSS, Flutter
Tools & Languages: TypeScript, JavaScript (jQuery, ES6), Python, Git, Docker, AWS, CI/CD, REST, Agile, Jira
Problem-Solving: Data Structures & Algorithms (DSA), Performance Optimization, Scalable Architecture, DBMS