

# Shivansh Kalra

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## EDUCATION

- Shiv Nadar University** Noida, India  
*Bachelor of Technology in Computer Science* Aug. 2023 – May 2027

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript (ES6+), Python, Node.js, SQL  
**Frameworks & Tools:** React.js, Next.js, Express.js, NestJS, Redux, MongoDB, PostgreSQL, Firebase, Redis, Docker  
**Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, CI/CD Pipelines, Microservices Architecture, RESTful APIs  
**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Web Development

## PROFESSIONAL EXPERIENCE

- FilFlo** Remote  
*Backend Developer* Sept. 2024 – Present
  - Architected and developed microservices-based backend system using Node.js and NestJS, successfully migrating 50% of monolithic codebase to distributed architecture, reducing deployment time by 40% and improving system maintainability.
  - Optimized database queries and implemented Redis caching layer, achieving 37% improvement in data retrieval performance and reducing server response times from 800ms to sub-300ms for high-frequency operations.
  - Built RESTful APIs serving 10,000+ requests daily with comprehensive error handling and logging, ensuring 99.8% uptime and seamless integration with frontend applications.
  - Implemented Docker containerization for development and staging environments, streamlining deployment processes and ensuring consistency across development teams.
- Testline** Remote  
*Product Development Intern* Dec. 2024 – Feb. 2025
  - Developed 3 production-ready AI-powered features using OpenAI and Gemini APIs, serving 3,000+ active users with real-time data processing and natural language understanding capabilities.
  - Engineered user authentication and authorization system with JWT tokens, reducing signup friction by 11% and improving overall user experience through streamlined onboarding flows.
  - Wrote comprehensive unit and integration tests achieving 85% code coverage, identifying and resolving 25+ critical bugs before production deployment.
- Frontrunner** Remote  
*Software Development Intern* May 2024 – Aug. 2024
  - Rapidly prototyped and launched 2 full-stack MVP applications using React, Node.js, and MongoDB within 8-week sprints, contributing to 40% increase in monthly revenue through feature development.
  - Collaborated with cross-functional teams of 5+ engineers and designers to build scalable web applications, participating in daily standups, code reviews, and sprint planning sessions.
  - Implemented automated CI/CD pipelines using GitHub Actions, reducing manual deployment effort by 70% and enabling continuous integration for faster iteration cycles.
- CatalystIQ** Gurgaon, India  
*Founder & Technical Lead* Jan. 2024 – April 2024
  - Architected enterprise-grade AI platform achieving 18% conversion rate, reducing data processing latency by 30% through optimized backend services and caching strategies.
  - Generated 1 Lakh+ revenue by delivering customized technical solutions to 10+ FMCG enterprises, demonstrating ability to align technical capabilities with business outcomes.
  - Engineered ML-based recruitment system reducing hiring cycle time by 65%, showcasing expertise in implementing AI solutions for business process optimization.
- Petner** Remote  
*Founder & Full-Stack Developer* Apr. 2023 – Dec. 2023

- Built scalable SaaS platform from ground up using cloud-native architecture, securing 25+ B2B partnerships and onboarding 100+ users through technical excellence.
- Implemented offline-first architecture with real-time synchronization using Firebase, ensuring high availability and resilience for mission-critical operations.

## PROJECTS

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- **SNUXplore - Enterprise-Scale Navigation Platform** | *Next.js, Azure AI Services, MongoDB, Microservices*
  - Scaled platform to 30,000+ concurrent users implementing distributed architecture with load balancing, caching layers, and optimized database queries for sub-100ms response times.
  - Integrated RAG-based LLM system using enterprise AI services for intelligent query resolution, implementing efficient token management and response caching strategies.
- **BuildFlow - SaaS Product Management Platform** | *React, TypeScript, REST APIs, CI/CD*
  - Delivered production-ready SaaS solution serving 200+ enterprise users with 500+ active projects, implementing role-based access control and multi-tenant architecture.
  - Established automated CI/CD pipelines ensuring zero-downtime deployments and maintaining 99.9% uptime SLA through robust error handling and monitoring.
- **CatalystIQ Hub** | *React, TypeScript, Python (Flask), REST APIs, Figma*
  - Engineered hiring platform from Figma designs to functional product, defining data models and API specifications to support core features aimed at improving hiring efficiency by 20%.
  - Built reusable, type-safe UI components with TypeScript ensuring platform scalability and maintainability—demonstrated ability to translate design mockups into production-ready code rapidly.
- **WEHIndia** | *Next.js, TypeScript, Firebase, Real-time Sync*
  - Developed event-vendor matching platform with real-time data synchronization using Firebase, implementing complex UI components and state management for enhanced user interaction with dynamic data.

## ACHIEVEMENTS & LEADERSHIP

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- Led technical development for applications being used by 200+ Enterprises
- Top 3 in 5+ Hackathons, with projects ranging from AI/ML to blockchain
- Self-taught advanced web technologies and cloud platforms through coursework, personal projects, and continuous learning