Shivansh Kalra

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SUMMARY

Computer Science student with 4+ years of hands-on software engineering experience across startups and internships. Fast learner comfortable with unfamiliar systems and multiple programming languages (JavaScript, TypeScript, Python, C++). Strong collaborator experienced with code reviews, design discussions, and working with cross-functional teams in distributed environments. Self-taught most technical stack through building production systems, with demonstrated ability to ship high-quality code, navigate large codebases, and communicate technical decisions clearly to stakeholders.

Education: B.Tech Computer Science, Shiv Nadar University (Expected May 2027)

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Node.js, C++, SQL, Bash
Backend & APIs: Express.js, NestJS, REST APIs, WebSockets, Microservices Architecture
Frontend: React, Next.js, Redux, Modern Web Development
Databases & Caching: PostgreSQL, MongoDB, Redis, Firebase
Infrastructure & Tools: AWS (EC2, S3, Lambda), Docker, Linux, Git, CI/CD Pipelines
Testing & Quality: Unit Testing, Integration Testing, Code Review Best Practices

EXPERIENCE

- **Thinkly Labs** — Remote
  Full Stack Engineer — *Nov. 2024 – Present*
    - Building North, a content generation engine from the ground up, architecting product infrastructure and core content generation systems to enable scalable, high-quality content creation workflows
    - Designing and implementing content engine responsible for intelligent content generation, optimizing for performance, reliability, and extensibility across diverse content types and use cases
    - Collaborating directly with founding team on product architecture decisions, rapidly iterating on features based on user feedback while maintaining code quality and system stability
    - Owning end-to-end feature development from database schema design through API implementation to frontend integration, shipping production-ready code in fast-paced startup environment

- **FilFlo** — Remote
  Backend Developer — *Sept. 2024 – Nov. 2024*
    - 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 10,000+ daily requests
    - Collaborated with cross-functional teams through code reviews and design discussions, incorporating feedback to improve system reliability while maintaining 99.8% uptime across distributed services
    - Implemented Docker containerization for development and staging environments, streamlining deployment processes and ensuring consistency across development teams

- **Testline** — Remote
  Product Development Intern — *Dec. 2023 – Feb. 2024*
    - Developed 3 production-ready features serving 3,000+ active users, integrating external APIs with custom data pipelines optimized for performance and cost efficiency
    - 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, proactively identifying and resolving 25+ critical bugs before production deployment
    - Collaborated with product and design teams to gather requirements, present technical solutions, and iterate based on user feedback and performance metrics

- **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 through daily standups, code reviews, and sprint planning sessions to build scalable web applications
- Implemented automated CI/CD pipelines using GitHub Actions, reducing manual deployment effort by 70% and enabling continuous integration for faster iteration cycles
- Owned complete features from database design through API development to frontend implementation, communicating project status clearly to stakeholders through documentation and updates

- **CatalystIQ** Gurgaon, India
  Founder & Technical Lead *Jan. 2024 – April 2024*
  - Architected enterprise-grade AI platform from scratch achieving 18% conversion rate, built using React, Node.js, Python, and PostgreSQL while serving 10+ B2B clients with 99%+ uptime
  - Engineered ML-based recruitment system reducing hiring cycle time by 65%, demonstrating ability to design scalable systems and translate business requirements into technical specifications
  - Led technical decision-making through data-driven analysis, reducing data processing latency by 30% through optimized backend services and caching strategies
  - Generated 1 Lakh+ revenue by delivering customized technical solutions, showcasing ability to align technical capabilities with business outcomes and stakeholder needs

PROJECTS

- **SNUXplore** | *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** | *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, demonstrating 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

- **Petner** | *React, Firebase, Offline-First Architecture*
  - Built scalable B2B SaaS platform from ground up using cloud-native architecture, securing 25+ partnerships and onboarding 100+ users through technical excellence
  - Implemented offline-first architecture with real-time synchronization using Firebase, ensuring high availability and maintaining 2-week release cycles through 8 months with 15+ feature iterations

- **InVariant** | *Python, Static Analysis, Security Engineering*
  - Building security analysis tool with Python-based static analysis engine processing code repositories and generating actionable security reports with 90%+ accuracy
  - Shipping weekly iterations based on developer feedback, demonstrating rapid prototyping and user-centric development approach

ACHIEVEMENTS & LEADERSHIP

Led technical development for applications being used by 200+ enterprises | Top 3 in 5+ hackathons across AI/ML and blockchain domains | Self-taught advanced web technologies and cloud platforms through continuous learning and building production systems