

Nikhil Kumar Singh

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Summary

Results-driven developer over 4.2 years of experience in building scalable, high-performance web applications using Node.js and Rust. Proficient in back-end technologies such as Node.js, Express, Nest, Typescript, and Hapi, React and experienced in Python for system-level and performance-critical tasks. Strong understanding of asynchronous programming, server-side, and database management. Strong communicator and team player.

Technical Skills

- **Programming Languages:** JavaScript (Node.js), Python, Go(Basic) .
- **Frameworks & Libraries:** Node.js, Express, React, Typescript, Nest, Hapi, EJS.
- **Front-End Technologies:** HTML5, CSS3, ReactJS.
- **Databases:** MongoDB, MySQL, PostgreSQL, DynamoDB, Redis.
- **Version Control Systems:** Git, GitLab, GitHub.
- **Cloud Services:** AWS (EC2, S3, RDS, Lambda), Azure.
- **CI/CD Tools:** Jenkins, Github Actions CI/CD .
- **Methodologies:** Agile, Scrum.
- **Project Management Tools:** Jira, Trello .

Education

Magadh University
Masters in Mathematics (M.Sc)
◦ GPA: 7.0/10

May 2016 – June 2018

Experience

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Conde Nast

Bengaluru, Karnataka
Sept 2024 – Current

- **NoSQL Workbench Integration with DynamoDB Local:** Configured AWS NoSQL Workbench to connect to a locally running DynamoDB instance, enabling efficient offline database management and testing.
- **Kafka Consumer for Real-Time Data Processing:** Developed and configured a Kafka consumer for real-time data streaming. Parsed JSON messages from Kafka topics and updated DynamoDB, ensuring seamless data flow and consistency.
- **Re-indexing and Database Vacuuming:** Implemented Lambda functions for re-indexing and vacuuming databases, configured through Terraform. Set up cron jobs for automated execution .
- **Monitoring and Alerting with Datadog:** Configured monitoring and alerting systems using Datadog to track service performance, health, and critical errors. Added steps to establish proper monitoring within the infrastructure.
- **OTEL Integration for Go and Node.js Applications:** Integrated OpenTelemetry (OTEL) in Go and Node.js applications for tracing and monitoring. Applied semi-instrumentation to ensure smooth observability of service performance.
- **Load Testing and Performance Analysis:** Conducted and documented load tests for services using gRPC, PostgreSQL, and Node.js to ensure performance under high traffic. Identified and optimized bottlenecks for better scalability.
- **Protobuf Implementation for JSON Services:** Replaced JSON implementations with Protobuf data format, improving data transfer efficiency and reducing payload sizes while maintaining the same functionality.

Associate Software Developer

Hutech Solutions

Bengaluru, Karnataka

Nov 2022 – Sept 2024

- **Payment System Expertise:** Designed and implemented a secure closed wallet system with various payment integrations (**Razorpay, PhonePe, Cashfree**), enabling seamless transactions through payment links and QR codes for doorstep payments.
- **Microservices Architecture:** Led the development of a microservices-based payment system using PostgreSQL and MongoDB, optimizing performance and scalability.
- **Project Leadership:** Managed end-to-end project requirements, system design, and cross-departmental collaboration, ensuring timely delivery and stakeholder sign-offs.
- **E-commerce Solutions:** Built a feature-rich campaign creation tool for online stores, enabling personalized email and SMS campaigns, and scaled the platform to handle 50,000+ emails daily without performance degradation.
- **ONDC Integration:** Advanced stages of integrating an e-commerce platform with the ONDC network as a seller app, preparing for production deployment.
- **Process Automation:** Revolutionized contract generation and delivery workflows, reducing manual effort from a day to seconds, and improving business efficiency through automated email communication.
- **Performance Optimization:** Consistently implemented optimizations to ensure seamless user experiences, even under high-traffic and large-scale operations.
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Navi Mumbai ,

Maharashtra

Jan 2021 – Sept 2022

- **Full-Stack Development:** Designed and implemented database schemas from scratch using PostgreSQL and developed RESTful APIs for various platforms, including e-commerce, NFT marketplaces, and loan provider systems.
 - **Authentication & Security:** Integrated social authentication (Google, Facebook), Twilio for phone-based login, OAuth, and JWT authorization, ensuring secure user access and role-based validation for all routes.
 - **Blockchain & NFT Expertise:** Built features for NFT minting, trading, and staking, including wallet creation, staking/unstaking, and reward distribution based on user activity. Implemented KYC verification for secure user onboarding.
 - **Auction & Marketplace Systems:** Developed auction house functionalities, including bidding, withdrawal, and cancellation, and created open marketplaces for luxury goods using NFT-linked digital certifications.
 - **Monorepo & Code-First Approach:** Utilized monorepo architecture for backend and frontend code storage and implemented code-first development using PrismaORM for seamless database model creation.
 - **Third-Party Integrations:** Integrated AWS services (S3 for storage, SES for email) and external APIs, ensuring smooth functionality for file storage, email communication, and other external operations.
 - **Client Collaboration:** Worked directly with clients to understand requirements, design user and admin panels, and deliver tailored solutions for e-commerce, NFT trading, and loan provider platforms.
 - **Deployment & Scalability:** Deployed applications to AWS servers, ensuring scalability and performance optimization for high-traffic platforms.
 - **Process Automation:** Streamlined workflows for user rewards, staking, and NFT trading, enhancing user engagement and operational efficiency.
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