

# Sandeep Kumar *Software Developer*

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## Professional Experience

**Reliance Jio, Software Developer** 🔗

Jul 2024 – present  
Gurugram, India

- Engineered and deployed an **IP Automation module** that **automated IP and subnet provisioning** for JIO HCMP and NIC customers, **reducing manual effort by 20 hours weekly** and **significantly decreasing error rates**.
- Led the development and implementation of a new Internal Development Platform (IDP) leveraging the Backstage framework, **improving developer onboarding efficiency by 25%** and **standardizing workflows for 100+ engineers**.
- Designed and implemented comprehensive API Gateway and mocking infrastructure utilizing Apicurio, Microcks, Keycloak, Docker, and Kubernetes, **accelerating API development and testing by 20%** and **supporting 50+ microservices**.
- Developed end-to-end solutions, encompassing **Angular-based micro-frontends** and robust **Java Spring Boot backends** for critical services.

**Microtek International, Software Developer** 🔗

Sep 2023 – Jul 2024  
Delhi, India

- **Drove 20% efficiency gains** by developing and implementing innovative internal tools that streamlined processes.
- **Reduced software deployment time by 30% and accelerated development cycles by 25%** by pioneering a scalable CI/CD pipeline.
- **Improved database performance by 40%** by optimizing data storage and retrieval in a Node.js/Express/Nest.js backend.
- **Decreased production error rates by 50% and increased throughput by 20%** by engineering a Golang tracking and traceability application.

**Create Protocol, Full Stack Developer** 🔗

Oct 2022 – Sep 2023  
Dubai, UAE

- Architected a **Creator console (JavaScript, React, Ether.js)** for **1K+ artists**, increasing **smart contract/NFT minting efficiency by 40%** while collaborating with international clients to gather and define project requirements.
- Delivered high-quality web applications on time using **Agile methodologies**, achieving a **95% client satisfaction rate**.
- Reduced **project delivery time by 30%**, increased **productivity by 25%**, and championed the adoption of modern tools and technologies, driving significant **technological advancement** within the company.




Education

|   |                          |
|---|--------------------------|
| HarvardX/EdX, CS50x Introduction in Computer Science  | Jan 2022 – Apr 2022      |
| Developed proficiency in <b>C, Python, and web development (HTML, CSS, JavaScript, Flask)</b> through HarvardX/EdX CS50x, emphasizing <b>algorithm design and problem-solving</b> . | Cambridge, Massachusetts |
| Kirori Mal College, Delhi University, BSc   | 2020 – 2023              |
| BSc in Zoology and Computer Science   | Delhi, India             |

Skills

|   |  |
|---|--|
| <b>Programming Languages</b><br>JavaScript, TypeScript, Go, Java, Python, Rust, Zig, HTML, CSS            | <b>Frontend</b><br>React, Next.js, Svelte, SvelteKit, Astro, Angular, HTMX, Tailwind CSS, Storybook, State Management (Redux, Recoil, Zustand) |
| <b>Backend</b><br>Node.js, Nest.js, Deno, Spring Boot, Express.js, Django, Microservices, Nginx, Apache   | <b>Databases</b><br>PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, SQL Server  |
| <b>DevOps &amp; Infrastructure</b><br>Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Linux, Bash | <b>Testing &amp; Quality Assurance</b><br>Cypress, Playwright, Jest, Vitest (E2E, Unit)  |
| <b>API &amp; Communication</b><br>REST, GraphQL, tRPC, Sockets, Webhooks, Kafka, RabbitMQ                 | <b>Tools</b><br>Maven, Elasticsearch, Git, GitHub  |
| <b>Cloud Platforms</b><br>GCP, AWS, Firebase  | <b>Other Essential Skills</b><br>Data Structures & Algorithms, System Design, Web Security, AI SDK, Gemini and ChatGPT APIs                    |

Projects

|   |                     |
|---|---------------------|
| <b>Sanflix, Netflix clone</b> <br>Developed <b>Sanflix</b> , a responsive <b>Netflix clone</b> with <b>Next.js</b> and the <b>MERN stack</b> , optimized for <b>fast page loads</b> . Implemented core features including <b>JWT authentication</b> , <b>search</b> , and a <b>content-based recommendation system</b> . Integrated <b>third-party APIs</b> for movie data and simulated subscriptions, using <b>caching</b> for optimal performance and a <b>user-friendly experience</b> . | Jun 2022 – Aug 2022 |
| <b>RSS aggregator</b> <br>Implemented a <b>Go RSS Aggregator</b> to efficiently collect and display feeds from 50+ sources. Features a user-friendly interface for seamless subscriptions, <b>real-time fetching</b> , and <b>XML parsing</b> for millisecond updates. Its modular architecture enabled a <b>30% increase in user engagement</b> .   | Jun 2023 – Jul 2023 |
| <b>Open Source Contributions</b> <br>Actively contributed to <b>high-impact open-source projects (10K+ GitHub stars)</b> , successfully implementing <b>new features</b> and delivering critical <b>bug fixes</b> .  |                     |