

# Poorv Kumar

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## Summary

Passionate about building scalable backend systems with a focus on performance, reliability, and ownership. Experienced in TypeScript/NestJS and event-driven architectures (Kafka, RabbitMQ). Also proficient in C++ and Java, with strong CS fundamentals and fast learning ability across new stacks. Seeking SDE-1 roles to build impactful systems and grow with an engineering-driven culture.

## Experience

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|--|---------------------------|------------------------------|
| <b>Software Developer</b>  | <b>Namaste Business</b>   | <b>Oct 2024 - Present</b>    |
| <ul style="list-style-type: none"><li>Built high-throughput, production-ready ONDC modules, handling <b>10K+ transactions/day with 99.95% reliability</b>.</li><li>Implemented event-driven architecture in <b>NestJS</b>, utilizing <b>RabbitMQ</b> for processing async workflows with <b>&lt;50ms latency</b>.</li><li><b>Owned end-to-end feature development</b> including system design discussions, implementation, and deployment.</li><li>Optimized legacy monolith through domain-driven refactoring, improving cold start performance by <b>30% (from 2.1s to 1.5s)</b>.</li><li>Implemented type-safe APIs using Zod validation, <b>reducing runtime errors by 40%</b> across 30+ service endpoints.</li></ul> |                           |                              |
| <b>Software Developer Intern</b>   | <b>Cobalt</b>             | <b>June 2024 - Sept 2024</b> |
| <ul style="list-style-type: none"><li>Built a webhook processing system using BullMQ and Redis to handle <b>500K+ daily events</b> with reliable queueing and error handling.</li><li>Developed and maintained <b>25+ third-party API integrations</b> (e.g., Google, Microsoft, GitHub, Calendly) with webhook support, automating workflows and reducing manual effort from hours to minutes.</li><li>Implemented <b>OAuth 2.0</b> and <b>token-based authentication</b> for 25+ third-party APIs, designing secure schema models.</li><li>Diagnosed and <b>resolved critical bugs in production</b>, improving system reliability through systematic debugging and monitoring.</li></ul>                                |                           |                              |
| <b>Full-Stack Developer Intern</b>   | <b>Qbtrix Innovations</b> | <b>Feb 2024 - April 2024</b> |
| <ul style="list-style-type: none"><li>Developed a full-stack generative AI platform, converting Figma designs into a <b>React</b> website and implementing backend APIs in <b>Express with TypeScript</b> for AI chat processing and user management.</li><li>Built conversational AI models using <b>Langchain</b>, enabling contextual interactions across multiple LLMs (GPT, Gemini, Ollama).</li><li>Utilized <b>MongoDB</b> for efficient data storage, managing chat history and context to enhance user experience.</li></ul>  |                           |                              |
| <b>Software Engineer Intern</b>  | <b>Manastik</b>           | <b>Oct 2023 - Feb 2024</b>   |
| <ul style="list-style-type: none"><li>Led the development of an <b>admin dashboard</b> in <b>React</b>, for data management across the mobile app and cloud storage.</li><li>Engineered APIs for admin functionalities, teleconsultation and appointments modules in a <b>MVC architecture</b> using <b>Express</b>.</li><li>Developed an <b>E2E cloud management tool</b> in <b>React</b>, to preview and manage objects in cloud storage in a directory structure.</li></ul>   |                           |                              |

## Skills

- Programming Languages:** TypeScript, JavaScript, Java, C++, C, Go, Python
- Backend:** Node.js, NestJS, Express, REST API, GraphQL, Microservices, **Frontend:** React, Next.js
- Databases:** MongoDB, MySQL, PostgreSQL, Redis
- Queues and Streaming:** RabbitMQ, BullMQ, Apache Kafka
- Tools and Technologies:** Docker, Kubernetes, Git, GitHub Actions, AWS, GCP, Nginx, Linux, Shell Scripting

## Projects

### Distributed Task Scheduler - Reminders | Express.js, Redis, BullMQ, Firebase

- Engineered a production-grade reminder system with asynchronous, delay-based job execution using **Redis and BullMQ** queues.
- Designed a **distributed task scheduler** to queue time-based jobs and trigger notifications on browser/android via **Firebase messaging**.
- Built Chrome extension UI for task creation; reminders persist via backend and sync across sessions/devices.
- Enabled scalable notification processing through **consumer partitioning and queue sharding**, handling **10K+ reminders/day**.
- Replaced traditional DB polling with **event-driven architecture**, improving performance and scalability.

### E-Commerce Website | Express.js, Typescript, React, MongoDB, Redis

- Collaborated with team members to build a full-stack e-commerce website using **React, Express, TypeScript, and MongoDB**.
- Engineered REST APIs for core e-commerce functionalities following the **MVC pattern** for backend architecture.
- Optimized performance by 30x** by implementing caching using **Redis**, and indexing the products in the database.

## Education

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|--|---|----------------------------|
| <b>Bachelor of Technology<br/>Computer Science and Engineering</b>   | <b>Indian Institute of Information Technology,<br/>Sri City, Chittoor</b> | <b>Dec 2021 - May 2025</b> |
| <ul style="list-style-type: none"><li><b>CGPA:</b> 8.36/10.0</li><li><b>Relevant Coursework:</b> Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, Distributed Systems</li></ul> |   |                            |