Poorv Kumar

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Education

Bachelor of Technology in CSE   **Indian Institute of Information Technology**   *Sri City, India*   **12/2021- 05/2025**

- Major in Computer Science and Engineering, 4th Year, CGPA: 8.28/10

Skills

- JavaScript | TypeScript | Python | React | Node.js | Java | C++ | C | Go | Express.js | REST API | GraphQL | Git | Docker | Kubernetes
- MongoDB | PostgreSQL | MySQL | Redis | BullMQ | RabbitMQ | GCP | AWS | Linux | Nginx | PM2 | Github Actions | Sentry
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | Event-Driven Architecture

Experience

Software Developer Intern   **Cobalt**   **06/2024 - 09/2024**

- Developed and maintained a **scalable, fault-tolerant large scale distributed system** utilizing an **event-driven architecture** with **BullMQ and Redis**, optimizing cost and operability of the system.
- Engineered API integrations for 25+ third-party apps (e.g., GitHub, Calendly, Hunter), automating workflows via **webhooks** using **Express, Typescript, MongoDB and Redis**, resulting in faster processing times and improved efficiency.
- Optimized pre-build script for large-scale database operations, for syncing apps across **1000+ users** and improving read/write efficiency, resulting in a 25% reduction in data processing times and better system performance.
- Collaborated with cross-disciplinary teams to debug and resolve critical production issues, reducing customer-facing bugs by 40%.

Full-Stack Developer Intern   **Qbtrix Innovations**   **02/2024 - 04/2024**

- Led the design and development of a full-stack generative AI platform using technologies like **Flask**, **Langchain, TypeScript.**
- Enriched system metrics by implementing in-depth logging and correlating APIs with vector contexts utilizing RAG.
- Configured multi-staged **docker** builds to streamline development workflows and reduce image sizes.

Software Engineer Intern   **Manastik**   **08/2023 - 02/2024**

- Led the development of a full-stack admin portal in **React**, for data management across the app and managing cloud storage.
- Engineered REST APIs for admin functionalities, teleconsultation and appointments modules using **Express**, **JavaScript, and MySQL.**
- Developed an E2E cloud management tool in React, to preview and manage objects in cloud storage as files and folders.

Projects

Reminders - Chrome Extension

- Developed a full-stack chrome extension for managing reminders, using **Express, TypeScript, MySQL, BullMQ, and Firebase**.
- Deployed the backend API on a Google Cloud VPS and set up PM2 for managing the Node.js processes and Nginx for reverse proxy.
- Implemented reminders scheduling mechanism using message queue and sending push notifications to clients using Firebase.
- Tested the efficiency for scheduling reminders to be able to achieve 10,000+ reminders per day.

Rugged - E-commerce Portal

- Led a team of 6 developers to build a full-stack e-commerce website over 3 semesters, using **React, Node.js, Express and MongoDB**.
- Engineered REST APIs for core e-commerce functionalities and set up MVC architecture for development.
- Improved the response time by 30x by implementing caching strategies at application level using **Redis**, and optimizing database performance by indexing the products catalog and proper query planning.
- Configured multi-staged **docker** builds to streamline development and set up CI/CD pipeline workflows using Github Actions.

SkribbleCode

- Built a real-time collaboration drawing tool, with cursor presence and code sharing features using **React, Express, Socket.io**.
- Created event handlers to allow real-time message passing through sockets for sharing events, maintaining consistent canvas state.

Achievements

- **1st Place:** National Healthcare Hackathon organized by Planotech Group of Companies.
- **Academic Achiever** for 6 consecutive years (2014 - 2020), receiving scholarship worth Rs. 1.5 Lacs.

Positions of Responsibility

- **Team Leader**: Responsible for planning tasks and designing the overall system architecture for team project Rugged.
- **Mentor**: Responsible for guiding new interns, conducting code reviews and promoting better development practices at Manastik.