

# KUMAR SHANU

📞 +91 8088038370 ✉ [kumarshanu38370@gmail.com](mailto:kumarshanu38370@gmail.com) 🌐 [Kumar Shanu](#) 📱 [kshanu12](#) 📧 [kumar-shanu](#)

## Education

RNS Institute of Technology

August 2019 - May 2023

Bachelor of Engineering in Information Science & Engineering (CGPA of 8.66)

Bengaluru, Karnataka

## Experience

HashedIn by Deloitte

Jan 2024 - Present

Software Engineer I

Bengaluru, Karnataka

- Gained cross-industry expertise by contributing to projects across **pharmaceutical, finance, and retail** domains.
- Worked on the development of a scalable content generation platform using **ReactJS** and **Django**, focusing on **performance, maintainability, and extensibility**.
- Strengthened application security by introducing **fine-grained role-based access control (RBAC)** and **user permissions management**.
- Revamped performance architecture, improving the app's **Lighthouse score** from **55** to **85+** through strategic **code-splitting, resource minification, lazy loading, and advanced caching** — resulting in a **30% smaller bundle size**.
- Utilized state management libraries like **Zustand** and **Redux** to efficiently manage complex application states, ensuring seamless data flow.
- Enhanced test infrastructure with **Vitest**, achieving **85%+ code coverage** and significantly lowering defect rates during QA cycles by **15–20%**.
- Utilized UI frameworks like **Material-UI, Ant Design**, and custom libraries to deliver sleek, **responsive, and accessible** components tailored for enterprise users.
- Crafted performant **GraphQL** operations and seamlessly integrated them with **Django-based APIs**, improving response consistency and reducing latency.
- Actively mentored freshers and contributed to **regular code reviews**, promoting best practices and continuous codebase quality improvements.

ChatGPT Writer

Aug 2023 - Sep 2023

Full-Stack Developer Intern

Remote

- Successfully migrated APIs from **serverless runtime** to **edge runtime**, resulting in a **30% reduction in response time**.
- Integrated **real-time streaming** in generated responses, increasing **user engagement** and reducing **wait times** by **50%**.
- Leveraged **Notion** as CMS to create blogging pages and implemented **Incremental Static Regeneration (ISR)**, reducing resource consumption and slashing page load times by **40%**.

HashedIn by Deloitte

Mar 2023 - Jun 2023

Software Development Engineer Intern

Bengaluru, India

- Completed a comprehensive **12-week boot-camp training program** focused on **Backend Development** with **NestJS & NodeJS**, **Frontend Development** with **NextJS & TypeScript**, and **Android Development** using **Flutter**.
- Engineered a **proctoring tool** to monitor candidates during **hiring tests**.
- Implemented advanced features including **real-time eye movement tracking, multiple person detection, and object detection** like **mobile phones** using **Tensorflow.js** along with **browser lockdown mechanism** for enhanced security.
- Developed robust **backend APIs** with **NodeJS** and **Express**, integrating **WebRTC** and **Socket.io** for **real-time video streaming**.
- Led a team of **4 members**, overseeing **project development**, coordinating tasks, and ensuring **project success**.

## Projects

HireWatch

NextJS, NodeJS, PostgreSQL

- Designed and developed a **highly scalable, available, configurable, and secured** proctoring web application that allows the examiner to invigilate and filter-out candidates.
- Integrated **PeerJS** library for real-time monitoring and utilized **TensorflowJS** library for proctoring mischievous activities like mobile phone detection, multiple person detection, and facial movements.
- Achieved 85% code coverage by writing comprehensive backend test cases using **Jest**.
- Implemented additional features such as **tab switching** and **fullscreen detection** to enhance the proctoring capabilities.

## Achievements

- **Thrice** recognized with **SPOT/Rising Star (Excellence Award)**.
- Achieved **Runner-up** position in **HashedIn by Deloitte's Product Expo**.

## Technical Skills

**Programming Languages:** C, C++, C#, JavaScript, TypeScript, Python, GraphQL, HTML, CSS

**Frameworks / Libraries:** NodeJS, ExpressJS, NestJS, NextJS, Redux, Zustand, TailwindCSS, Material-UI (MUI)

**Tools & Platforms:** Git, Docker, Swagger, JIRA, Confluence, Vitest

**Databases:** MySQL, PostgreSQL, MongoDB