Harsh Deep Shukla

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Gurugram, Haryana

Socials

LinkedIn: https://in.linkedin.com/in/harsh-deep-shukla

Skills & Interests

Node, REST, APIS, JavaScript, React, Nextjs, jQuery, HTML5, CSS, SQL, MySQL, PostgreSQL, MongoDB, Material-UI, Bootstrap, Django, Flask, Python, Selenium, Fullstack, Web Development, Data Analytics, Data Science, Machine Learning

Education

B.Tech in Computer Science and Engineering

Indian Institute of Information Technology • Surat, Gujarat
05/2022
CGPA: 8.61

Courses: Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning

Experience

Software Development Engineer

Uolo.com • Gurugram, Haryana
06/2022 - Present

- **Learning Content Management Hub**
  - Architected and implemented a centralized authentication service, empowering seamless user permission management for operations spanning multiple microservices.
  - Spearheaded the end-to-end development of a dynamic streaming video platform, showcasing student performances and introducing a user-specific feed generation feature.
  - Applied advanced sharding techniques to PostgreSQL and MongoDB, ensuring high consistency in distributed databases.
  - Leveraged AWS services (S3, Elastic) to create a scalable and fault-tolerant infrastructure.
  - Effectively fortified the streaming platform, delivering optimal performance, high availability, and fault tolerance, contributing to an enriched user experience.
- **Reporting System:**
  - Orchestrated the development of personalized dashboards, tailoring interfaces for individual user roles to optimize the visibility of key metrics.
  - Implemented fine-grained access controls, ensuring data security by restricting access to specific metrics to authorized users only.
  - Engineered scalable and efficient database structures to accommodate growing data volumes, facilitating quick retrieval and analysis of metrics.
  - Implemented caching mechanisms to boost report generation speed, especially for frequently accessed or static metrics, enhancing system efficiency.
  - Pioneered the development of real-time reporting capabilities, empowering users to access the latest data pertinent to their roles.
  - Ensured the reporting system's mobile responsiveness, providing a seamless experience for users accessing metrics across various devices.
- **User Analytics**

- Integrated event tracking across modules

- Collected and combined the data to create user journey
  analytics dashboards using technologies like Google Tag Manager (GTM), Google Analytics (GA), and BigQuery.
- **Quiz**
  - Designed, implemented and deployed a robust system for the latest product, encompassing various aspects of student school life such as exams, quizzes, projects, and homework assignments.
  - Developed and maintained a robust bulk data ingestion tool for efficient processing of content. Technologies used: Node.js, Google Sheets.
- **Chat**
  - Led frontend development efforts for the chat module, implementing features such as message selection, copying, forwarding, and deletion. Also, integrated an audio player for audio messages.

Software Development Engineering Intern

Uolo.com • Gurugram, Haryana
01/2022 - 05/2022

- Creating a database sync service from MongoDB to MySQL
- Technologies used: React, Next.js.

Data Engineering Intern

Sage Coders
06/2021 - 12/2021

- Proficient in extracting, cleaning, transforming, enriching, and loading data into data pipelines, ensuring data accuracy and consistency.
- Skilled in creating compelling visualizations to effectively communicate insights from the extracted data.
- Proficient in data manipulation using SQL, enabling efficient data preparation and integration processes.
- Providing Insights on defined metrics

Publications

LMNet: Lightweight multi-scale convolutional neural network architecture for COVID-19 detection in IoMT environment, Computer and Electrical Engineering, ELSEVIER