

JATIN KUMAR

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EXPERIENCE

TerraDX Technologies

Full Stack Engineer

Remote, India

Feb 2024 - Present

- Designed and implemented a FastAPI-based backend for executing Python notebooks with efficient file handling and storage solutions on Azure FileShare, ensuring robust data management.
- Architected an event-driven, distributed system for compute-intensive file processing on Azure, optimizing data flow and processing time for high-volume applications.
- Spearheaded frontend integration using Next.js to streamline user interactions within data interfaces, achieving a 30% reduction in load times and enhancing overall responsiveness for an improved customer experience.
- Implemented advanced security protocols (OAuth2, JWT) for streamlined authentication across multiple internal platforms.
- Optimized Azure Cosmos DB setup to significantly improve data retrieval speed and accuracy with advanced vector search algorithms.

DarkHorse

Full Stack Intern

Remote, India

Sep 2023 - Feb 2024

- Developed a comprehensive customer support system, enhancing customer satisfaction and support efficiency with automated ticketing and real-time notifications.
- Contributed to full-stack development using React, Node.js, and MongoDB, creating a seamless user experience.

SKILLS

Programming Languages:	JavaScript, Golang, Python, TypeScript
Frameworks:	React.js, Next.js, Express.js, FastApi, Flask, Gin
DevOps:	Docker, Kubernetes, Github Actions, Prometheus, Grafana
Tools:	Git, Postman, Terraform, Ansible
Database:	Sql, Postgres, MongoDB, Redis
Cloud:	Amazon web services (AWS), Azure

PROJECTS

Compute-Intensive Data Processing System *Azure, Kubernetes, FastApi, Dask, Azure Fileshare*

Developed a distributed backend architecture on Azure for high-volume file processing, utilizing FastAPI, Dask and an event-driven system to enable seamless, parallel data handling and reduce processing time.

Full Stack App to deploy database server *Next.js, express.js, Kuberentes, Socket.io, kubeApi, AWS*

<https://github.com/JATINKUMAR1008/db-pfl>

Developed a secure and Full Stack application to deploy database servers, integrating front-end and back-end technologies.

Full stack app with Microservices Implementation *React.js, Flask, Docker, Kubernetes, Nginx,*

Postgres https://github.com/JATINKUMAR1008/Ecommerce_Microservices_Application

Built a scalable Full Stack application using Microservices architecture, enabling independent development and deployment of components.

Scraper *Next.js, React Flow, React Query, Drizzle ORM*

<https://data-scraper-lime.vercel.app/>

Scraper is a user-friendly, no-code platform that allows users to visually create and manage workflows for scraping data from any website. Users can define scraping tasks by simply entering a URL, selecting data elements via a browser-like interface, and configuring actions using a drag-and-drop workflow builder.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Amazon Web Services

Nov 2023

Cisco Networking Essentials

Cisco

Dec 2022

EDUCATION

Chandigarh University

BE Computer Science *GPA: 8.2*

Mohali, Punjab

Aug 2021 - May 2025