Nikhil Pahuja
Software Developer
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GitHub LinkedIn Portfolio

PROFESSIONAL SUMMARY

Software Engineer with hands-on experience building scalable backend systems and data-driven APIs using **Node.js**, **Python**, **MongoDB**, **MySQL**, and **FastAPI**. Experienced in secure API design, database optimization, and Dockerized deployments.

EXPERIENCE

Software Engineer   July 2024 – Present
Shephertz, Gurgaon, Haryana
- Built and maintained production-grade REST APIs using Node.js, Express, and MongoDB for enterprise platforms.
- Improved API and database performance by 20% through query optimization and refactoring.
- Implemented secure JWT-based authentication and role-based access control.
- Developed a Docker-based microservice scaffolding tool to generate CRUD services for Node.js + MongoDB and FastAPI + MySQL.
- Collaborated with QA and product teams to resolve production issues and deliver stable feature enhancements.

Developer Intern   June 2023 – July 2023
HERE Technologies, Remote
- Built Python automation scripts and Scrapy-based web crawlers to extract structured Points of Interest (POI) data.
- Processed, validated, and cleaned large datasets for use in location intelligence products.
- Reduced manual data preparation effort by automating repetitive data collection and processing workflows.

PROJECTS

DataFlow – Database Migration Studio (Link)
***Tech Stack**: React, Tailwind CSS, FastAPI, Python, MySQL, PostgreSQL, MongoDB*
- Built a full-stack web application to automate database migration from **MySQL** to **PostgreSQL** and **MongoDB**.
- Implemented schema analysis, type mapping, and relationship preservation for database migration.
- Designed and developed REST APIs using **FastAPI** to manage migration workflows and validation, and deployed frontend and backend services with production-ready configurations.

ExcelHire – AI-Powered Excel Interview Platform (Link)
***Tech Stack**: React, TypeScript, Tailwind CSS, FastAPI, PostgreSQL, Docker*
- Built an AI-driven Excel interview platform with conversational skill assessment and adaptive questioning.
- Developed secure backend APIs for authentication, interviews, evaluation, and reporting.
- Deployed the full-stack application using Docker for consistent, isolated, and repeatable environments.

Finance Tracker – Backend System (Link)
***Tech Stack**: Node.js, Express, MongoDB*
- Designed and implemented a backend system for tracking expenses and income.
- Built **REST APIs** with proper data validation, authentication, and business logic.
- Optimized **MongoDB** queries to ensure efficient data retrieval and updates.

SKILLS

Programming	JavaScript, Python, SQL
Backend & APIs	Node.js, Express.js, FastAPI, REST APIs, JWT, Microservices Architecture
Databases	MongoDB, PostgreSQL, MySQL
DevOps & Tools	Docker, Git, GitHub, Postman

EDUCATION

Bachelor of Computer Application, Amity University	2023 – 2026
12th Grade, 80.0% (CBSE), Lions Public School, Gurgaon	2023