

# SHIVAM TANEJA

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Full Stack **MERN Developer with 2+ years** of experience building scalable web applications and AI-integrated platforms using **JavaScript, TypeScript, React.js, Next.js, Node.js, and NestJS**. Experienced in designing and developing **RESTful APIs, microservices**, and event-driven architectures using **Redis, BullMQ, and PostgreSQL**. Skilled in building modern, responsive user interfaces with **React, HTML5, CSS3**, and component-based architecture. Strong expertise in database design, **MongoDB, PostgreSQL, Prisma ORM**, and vector storage using **pgvector**. Hands-on experience implementing AI integrations including vector embeddings, semantic search, knowledge graphs, and Retrieval Augmented Generation (RAG) using cloud AI services like **Google Vertex AI**. Proficient in building secure **authentication** systems using **JWT, Passport.js, and NextAuth**. Experienced with monorepo architecture using **Turborepo, API integrations**, background job processing, and scalable backend systems. Passionate about developing high-performance, scalable full-stack applications and delivering efficient solutions using modern **MERN stack and cloud-native technologies**.

## Experience

- ❖ **SOFTWARE DEVELOPMENT ENGINEER** | NTT DATA | JUNE 2024 – PRESENT
- ❖ **SOFTWARE DEVELOPER INTERN** | SEOVIGIL | JAN 2024 – JUNE 2024
- ❖ **WEB APPLICATION DEVELOPER** | GINGER PARTNERS | OCT 2023 – JAN 2024

## Skills & Expertise

- ❖ JavaScript
- ❖ TypeScript
- ❖ React.js
- ❖ Next.js
- ❖ Node.js
- ❖ NestJS
- ❖ Express.js
- ❖ MongoDB,
- ❖ PostgreSQL
- ❖ Prisma ORM
- ❖ RESTful APIs
- ❖ Microservices Architecture
- ❖ AWS, Azure, GCP
- ❖ COSMOSDB
- ❖ Event Driven Architecture
- ❖ Redis
- ❖ BullMQ
- ❖ Vector Embeddings
- ❖ Knowledge Graph
- ❖ Retrieval Augmented Generation (RAG)
- ❖ AI Integration
- ❖ Google Vertex AI
- ❖ JWT Authentication
- ❖ Passport.js
- ❖ NextAuth
- ❖ Turborepo Monorepo
- ❖ React Flow
- ❖ HTML5
- ❖ CSS3
- ❖ Git
- ❖ Bootstrap
- ❖ Material UI
- ❖ API Integration
- ❖ Database Design
- ❖ Python
- ❖ Python-Django
- ❖ SQL
- ❖ PostgreSQL
- ❖ Firebase
- ❖ Data Structure and Algorithms

## Projects

### GraphMySelf -AI Powered Personal Knowledge Graph Platform

GraphMySelf is an AI-powered platform designed to create a **personal knowledge graph and memory layer** that synchronizes user identity across multiple AI tools and models. The application integrates data from sources such as **resume, GitHub, LinkedIn, and Notion**, processes the information through a scalable backend, and converts it into

**semantic chunks and vector embeddings** for intelligent retrieval. The platform implements a **Retrieval Augmented Generation (RAG)** architecture to provide contextual information to AI models in real time. Built using **Next.js, React.js, Node.js, and NestJS**, the system follows a **microservices and event-driven architecture** using **Redis and BullMQ** for asynchronous job processing such as document parsing, embedding generation, and data ingestion. The frontend includes an **interactive graph visualization dashboard using React Flow** to explore relationships between user data nodes. The platform uses **PostgreSQL with pgvector** for vector storage and graph relationships, while **Apache Tika** handles document parsing and **Google Vertex AI** generates embeddings. Secure authentication is implemented using **NextAuth, JWT, and Passport.js**, enabling external AI tools to query the system through APIs.

**Tech Stack:** - JavaScript, TypeScript, React.js, Next.js, Node.js, NestJS, PostgreSQL, Prisma ORM, Redis, BullMQ, React Flow, Google Vertex AI, Apache Tika, JWT Authentication, NextAuth, Passport.js, Turborepo.

## Roles & Responsibilities

- ❖ Developed scalable full-stack applications using **JavaScript, TypeScript, React.js, Next.js, Node.js, and NestJS** following modern software engineering practices.
- ❖ Designed and implemented **RESTful APIs and backend services** using **Node.js and NestJS** to support secure and high-performance web applications.
- ❖ Built responsive and interactive user interfaces using **React.js, Next.js, HTML5, and CSS3** with component-based architecture.
- ❖ Implemented **secure authentication and authorization** using **NextAuth, JWT Authentication, and Passport.js** to protect APIs and user data.
- ❖ Designed and optimized database schemas using **PostgreSQL and Prisma ORM** ensuring efficient data storage and query performance.
- ❖ Developed AI-powered features by integrating **Google Vertex AI** to generate **vector embeddings** for intelligent data retrieval.
- ❖ Implemented **Retrieval Augmented Generation (RAG)** workflows to provide contextual information to AI models using vector search.
- ❖ Built **event-driven architecture** using **Redis and BullMQ** for asynchronous processing of document parsing, embedding generation, and data ingestion tasks.
- ❖ Developed **background job processing systems** to improve application scalability and system performance.
- ❖ Created **interactive graph visualization dashboards** using **React Flow** to represent knowledge graphs and relationships between data nodes.
- ❖ Implemented **document ingestion pipelines** using **Apache Tika** for parsing structured and unstructured documents.
- ❖ Managed project architecture using **Turborepo monorepo setup** with shared **TypeScript types and Prisma schemas** across services.
- ❖ Integrated external platforms and services through **API integrations** enabling seamless data synchronization across systems.
- ❖ Followed **Agile/Scrum methodology**, participating in **sprint planning, daily stand-ups, code reviews, and iterative development cycles**.
- ❖ Used **Git for version control** and maintained clean, modular, and scalable code following best practices in **full-stack development**.

## Education

- ❖ B-TECH | CSE | Manav Rachna International Institute of Research And Studies