SHIVAM GARG

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Final-year Computer Science student with a **9.2 CGPA**. Full-stack Developer with published AI research and production experience in backend migration (NoSQL to PostgreSQL). Developed Complete Optimized Backend in Go Reducing API response times by 40 % at vCommission. Expertise in React, Go, Python, TensorFlow with focus on scalable systems and ML applications. Seeking SDE/ML Engineering roles to leverage proven ability in system optimization and AI/ML.

EDUCATION

Bennett University, Greater Noida   **2022 − 2026**
*B.Tech - Computer Science and Engineering - **CGPA: 9.2/10.0***

EXPERIENCE

BVC E Services Pvt Ltd (a VC One Group company)   **Aug 2025 - Present**
Full Stack Developer Intern (for vCommission)   *Gurugram, India (Onsite)*
- Architected and implemented the backend migration from **Firestore (NoSQL) to PostgreSQL** for vCommission's affiliate marketing platform, a leading global affiliate network.
- Designed the complete relational **SQL schema**, created new tables, managed data insertion, and developed new **REST APIs and backend handlers** using **Go (Gin)** to support the relational architecture and improve system scalability.
- Initially improved frontend performance by optimizing the **React** codebase, cleaning legacy code, and resolving bugs, which led to a **40% reduction** in API data fetching times.
- Implemented **Firebase** for frontend deployment, collaborating with team, using **Google Cloud Platform (GCP)** for deployment and integrating **CI/CD pipelines** to automatically deploy new revisions on commits to the main branch.
- Collaborated with 5-member cross-functional team following **Agile methodology**, delivering features in 2-week sprints

Devslane   **June 2024 - Oct 2024**
React Trainee   *Remote*
- Developed and deployed a responsive E-commerce front-end using **React, Tailwind CSS** and **Redux**, improving user experience through responsive design and optimized performance.
- Mastered modern frontend practices, including writing clean, production-ready React code and implementing advanced styling with Tailwind CSS.

PROJECTS

Source Sync -Narrative Analysis Tool | Python, Flask, React, TensorFlow   **2025**
- Architected a full-stack AI analysis tool to identify and summarize narrative differences between anime adaptations and their source material using a Python/Flask backend and a React/TypeScript frontend.
- Engineered a multi-stage AI pipeline to perform semantic analysis: Leveraged **TensorFlow** for vector embeddings, **FAISS** for high-speed similarity search, and **K-Means** clustering to group unmatched content thematically.
- Leveraged a **Gemini 1.5 Flash LLM** to perform narrative analysis on thematic clusters, generating structured JSON reports on significant cut content.

MovieBuzz - TV Show Discovery App | React, Tailwind CSS, TypeScript, Redux   **2024**
- Developed and deployed a dynamic TV show discovery platform using **React** and **Redux** for state management, integrating the TVMaze API to fetch and display show details.
- Implemented a fuzzy search algorithm, reducing search errors by **40%** and improving the accuracy of returning relevant results for ambiguous user queries.

Interactive Neo4j Graph Visualization Tool | React, Tailwind CSS, JavaScript   **2024**
- Developed and deployed a web-based tool that emulates Neo4j-style graph visualization, allowing users to dynamically add, connect, and manipulate nodes and relationships in real-time.
- Crafted a modern and intuitive user interface with **React** and **Tailwind CSS**, creating a seamless and engaging graph playground experience.

TECHNICAL SKILLS

Core: Python, JavaScript/TypeScript, GO, C++, Java, SQL, Data Structures & Algorithms
Frameworks: TensorFlow, PyTorch, React, Flask, Redux, GIN, Tailwind CSS, Jest, React Testing Library, Scrum
Databases: MySQL, MongoDB, Supabase, PostGreSQL **Developer Tools:** Git, Docker, Postman, VS Code, DBeaver
Cloud DevOps: GCP, Firebase, Docker, CI/CD basics

Certifications

- **Convolutional Neural Networks in TensorFlow** – Coursera
- **Google AI Essentials** – Offered by Google on Coursera

ACHIEVEMENTS and PUBLICATIONS

- **Conference Publication:** Presented a research paper titled *"Hybrid CNN-RNN Deepfake Detection Framework Using ResNeXt-LSTM with Temporal and Spatial Artifact Analysis"* at the International Conference on Image, Vision and Computing (ICIVC) 2025.
- **Dean's List Award:** Received the Dean's List Award for outstanding academic achievement during the academic year 2024–2025.