Garv Thakral

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EDUCATION

Christ University   Bengaluru, India
Bachelor of Computer Applications   *Aug. 2022 – May 2025*

Lancers Convent   Delhi, India
Class XII   *May 2022*

PROJECTS

Dex | *C++ CLI Tool* [GitHub]
- Designed and implemented **15 modular commands** in **C++**, reducing boilerplate code by **40%** and accelerating project setup from **10 to 3 minutes**.
- Ensured cross-platform compatibility by testing on **Windows, Linux, macOS**, achieving **100% success** in automated **CI builds**.
- Integrated **Git operations** and project template management for streamlined workflow automation.
- Developed a user-friendly command-line interface for managing **environment setups** and configurations across projects.

Job Dashboard | *React, Prisma, PostgreSQL* [GitHub] [Deployed]
- Created a dashboard to track over **50 job applications**, improving review efficiency by **25%** through intuitive UI design.
- Implemented **AI-based analysis** to generate **200+ resume suggestions**, achieving an **80% user adoption rate**.
- Built modular **React** components for sorting, filtering, and visualizing application data.
- Developed a **Prisma**-based backend with **PostgreSQL** to securely manage user data and application statuses.

SkillTrade | *React, Node.js, PostgreSQL* [GitHub] [Deployed]
- Developed a **token-based skill exchange platform** with **real-time collaboration** features, designed for scalability.
- Integrated **DyteAPI** for video calls and **WebSocket chat**, maintaining **99% uptime** across **100+ test sessions**.
- Implemented an offer system and **chat history tracking** to facilitate seamless skill trading.
- Ensured secure user authentication and data management using **Node.js** and **PostgreSQL**.

Recommendation System (Content Based) | *Python, Flask, Next.js* [GitHub]
- Developed a content-based recommendation engine using **TF-IDF** and **cosine similarity**, achieving **85% accuracy** in user feedback.
- Built a **Flask** API to process over **1,000 movie records** and deliver recommendations, handling **200 requests daily**.
- Created a **Next.js** frontend for user interaction, enabling movie searches and personalized suggestions.
- Deployed the application on **Heroku**, supporting **150 monthly visitors** with robust performance.

CERTIFICATIONS

- AWS Academy Cloud Foundations
- Introduction to Machine Learning (freeCodeCamp)
- Responsive Web Design Certification (freeCodeCamp)

TECHNICAL SKILLS

MERN Stack, Next.js, JavaScript, TypeScript, HTML/CSS, Prisma, Python, TensorFlow, Keras, OpenCV, C, WebSockets, PostgreSQL, MongoDB, Git, Docker, Postman, REST APIs, GraphQL, CI/CD (GitHub Actions), AWS (EC2, S3, Lambda), Firebase, Figma, Adobe Photoshop, Blender, After Effects