

YASHIKA BHANDARI

LinkedIn | Leetcode | GFG | Codeforces | HackerRank

EDUCATION

Lovely Professional University, Phagwara, India

Aug 2022 – Aug 2026

B.Tech, Computer Science and Engineering — GPA: 7.5

Relevant Coursework: OOP, AI and Machine Learning, C++, Data Structures and Algorithms, SQL , Operating Systems, Computer networks, Computer vision

EXPERIENCE

Sheshya, Backend Developer

June 2024 – Aug 2024

- **Designed** and deployed a custom school app, accelerating user registration efficiency by **30%**, enabling streamlined account management and secure access.
- **Optimized** backend infrastructure, refining database queries to enhance data retrieval speed by **20%**.
- **Integrated** robust security measures, ensuring data integrity and system resilience.
- **Collaborated** with frontend engineers to synchronize development, minimizing integration delays by **15%**.

PROJECTS

Twitter Sentiment Analysis

Sept 2024

Tools: Python, NumPy, Pandas, NLTK, Scikit-learn, Kaggle API

- **Implemented** a sentiment analysis model trained on a dataset of 1.5 million tweets, yielding **79% accuracy**.
- **Refined** text processing pipelines with advanced feature extraction, enhancing computational efficiency by **20%**.

AI Trip Planner – Web Application

July 2024

Tools: MongoDB, Express.js, React.js, Node.js, AI APIs

- **Developed** an AI-powered trip planning tool, tailoring travel recommendations for **1,000+ users**, improving user satisfaction by **25%**.
- **Enhanced** backend efficiency through performance tuning, slashing response times by **30%**.

Graph Pathfinding Visualizer

Dec 2024

Tools: Python, Dijkstra's Algorithm, BFS, DFS, Pygame

- **Engineered** an interactive visualizer demonstrating shortest pathfinding algorithms like **Dijkstra, BFS, and DFS**.
- **Refactored** traversal logic, boosting computational performance by **20%**.
- **Designed** an intuitive UI using **Pygame**, making algorithm learning engaging and interactive.

Mobile Attendance Tracker

March 2025

Tools: Android Studio, Kotlin, Firebase

- **Developed** a mobile application for tracking attendance, used by over 100 students and faculty members.
- **Integrated** Firebase for real-time data storage and authentication.
- **Enhanced** UI using modern Android design principles for better user experience.
- **Implemented** offline functionality, ensuring smooth operation without internet connectivity.

SKILLS

Languages: C/C++, Python, Kotlin , JavaScript — **Frameworks Libraries:** React.js, Tailwind CSS, Bootstrap , OpenCV — **Backend:** Node.js, Express, FastAPI, MongoDB — **Systems Programming:** Pthreads, Memory Management, Sockets, Multithreading, File I/O — **Tools:** GitHub, Postman, Excel, PowerBI , CI-CD pipeline ,Jenkins,Docker— **Data Science:** Data Analysis, NLP — **Platforms:** Windows, MacOS , Linux

EXTRACURRICULAR ACTIVITIES

- **Directed** community outreach programs as an **NSS volunteer**, elevating participation by **25%**.
- **Facilitated** coding **competitions and workshops**, driving engagement by **30%**.

CERTIFICATIONS

- Generative AI Primer, **Full Stack** Development with AI Integration, Data Structures and Algorithms