Amritanshu Baranwal

✉ amritanshubaranwal09@gmail.com 📞 8574666969 📍 Greater Noida, U.P. ⫩ LeetCode ▤ HackerRank
○ GitHub ➤ Portfolio

♟ CAREER OBJECTIVE

Software engineering graduate seeking a challenging and dynamic work environment to gain valuable real-world experience in a professional setting.

💼 INTERNSHIPS

LTIMindtree
02-2023 – 05-2023
- Collaborated as a Java Developer, responsible for the development and maintenance of Java-based applications. Worked closely with the engineering team to integrate ReactJS features.
- Implemented robust test cases that substantially increased code coverage from 55% to 85%, ensuring the reliability and stability of Java-based applications.
- Consistently delivered projects on time and within budget, while acquiring valuable skills in software development, teamwork, and deadline management.

⌨ SKILLS

Data Structure and Algorithms
In C++ and Java

Database
MySQL, MongoDB

Web Development
HTML, CSS, JavaScript, NodeJS, Express, EJS, ReactJS, Git, Github

Coursework
Object Oriented Programming, Database Management System, Operating System

Tools
Visual Studio Code, MySQL Workbench, Jupyter Notebook, Google Colab)

Operating System
Windows | Linux | MacOS

🎓 EDUCATION

G.L. BAJAJ INSTITUTE OF TECHNOLOGY & MANAGEMENT, *Greater Noida*
2019 – 2023 | 8.61 CGPA
  B.Tech (*Computer Science and Engineering*)

📇 CERTIFICATES

Hackerrank SQL (Intermediate) Certificate ⧉

Machine Learning Training ⧉

IEEE International Conference - CISES ⧉

Tathastu Android Bootcamp ⧉

NPTEL - Enhancing Soft Skills and Personality ⧉

30 Days of Google Cloud ⧉

✏ PUBLICATIONS

Pixellayer- A novel approach for stitching digital Images and Videos ⧉
Authored and published a research paper introducing a cost-efficient real-time surveillance video stitching method, eliminating wide-angle camera requirements, capturing object movement in real-time, and achieving cinematic effects. The research foresees broader applications in dynamic real-time environmental feature recognition, contributing to field innovation.

Real-Time Image and Video Stitching Via Seamless Integration of Live Camera Feeds for Enhanced Visual Quality ⧉
Authored and published innovative research on real-time surveillance video stitching, optimizing Scale-Invariant Feature Transform (SIFT) for live camera integration, eliminating wide-angle camera needs, achieving 0% white space, and enabling dynamic object movement capture. Envisions applications in surveillance, recording, and live video transmission, anticipating future advancements in video stitching with a focus on enhanced algorithms, high-resolution stitching, real-time capabilities, automation, and mobile integration.

📁 PROJECTS

Pixellayer ⧉
- Innovatively created a cost-effective live-streaming CCTV panorama tool, addressing security camera blind spots and providing cinematic quality. Applied technology for virtual reality, surveillance, video conferencing, and live broadcasting.
- Conducted research and authored an IEEE ⧉ conference paper on AI-based image and video stitching, ensuring seamless viewing experiences without visible seams or disruptions. Implemented real-time frame per second (FPS) monitoring for tracking object movement.

Password Manager GUI ⧉
- Developed a Python-based GUI for secure storage of login information on personal computers, offering a reliable solution for password management. Implemented encryption-decryption using the Python cryptography library.
- Designed an intuitive and user-centric GUI for efficient login data management, enhancing login credential security and management.

Movies Info ⧉
- Designed and developed a dynamic web portal using JavaScript, Node.js, Express.js, and EJS.
- Integrated the OMDB API, enabling users to access comprehensive information about movies and series through a straightforward search. Deployed on Render for universal accessibility.