Amarjit Kumar Natraj

6209163177 amarjitkumarnatraj00265@gmail.com Nagpur, Maharashtra

 Linkedin/Amarjit   GitHub/Amarjit

Profile

Motivated and results-driven Computer Science Engineering (CSE) student with strong expertise in C++. Adept at applying technical skills in software development, system optimization, and problem-solving to real-world projects. Proficient in front-end development and cloud computing, with a demonstrated ability to learn and adapt quickly to new technologies. Passionate about building impactful solutions in dynamic, collaborative environments and actively seeking opportunities to grow in diverse software development roles.

Education

B.Tech in Computer Science *G H Raisoni College of Engineering*   **Nagpur** *2021-2025*
HSC (JAC) *RLSY College*   **Koderma, Jharkhand** *2021*

Projects

Lunar Object Detection
- Developed a deep learning model for lunar crater and boulder detection, achieving **60% accuracy** using U-Net and Mask R-CNN.
- Employed **Python** for image preprocessing and data augmentation, enhancing model robustness by **35%** with Canny Edge Detection and Generative Adversarial Networks (GANs).
- Built a **Flask web interface** for real-time lunar image analysis, increasing exploration efficiency by **40%**.

Carolinas Website Development
- Built **responsive, SEO-optimized interfaces** using React.js, improving mobile usability and page performance by **35%**.
- Developed **core pages** (Home, Services, Booking) with dynamic forms and scheduling, boosting consultation conversions by **40%**.
- Collaborated with design and backend teams to **enhance user experience**, increasing engagement and lead capture by **50%**.

SQL-Based Book Inventory Management System
- Engineered an **SQL-based inventory system**, reducing stock discrepancies by **25%** with real-time tracking.
- Optimized **query performance**, improving book search efficiency by **40%**.
- Developed **data visualization reports**, providing insights into inventory trends and sales, boosting revenue by **15%**.

Internships

Front-End Developer at BoostNow Solution (Dec 2024 – May 2025)
- Translated wireframes and mockups into clean, functional UI components using **React.js**, ensuring consistent branding across the platform.
- Implemented interactive elements and seamless transitions that streamlined user flow, reducing bounce rates by **30%** on key pages.
- Conducted comprehensive UI testing and resolved layout issues to deliver a polished, cross-device user experience.
- Utilized **Git** for version control, improving team collaboration efficiency by **15%**.

Skills

- **Languages:** C++, SQL, Python
- **Frontend:** HTML, CSS, JavaScript, React.js
- **Databases:** MySQL, PostgreSQL
- **Developer Tools:** GitHub, Git
- **Coursework:** OOP, DBMS, DSA, Cloud fundamentals
- **Soft Skills:** Problem-solving, Teamwork, Quick Learner

Extracurricular & Certifications

- **Goldman Sachs Software Engineering Virtual Experience Program on Forage - December 2024:** Identified weak password hashing at Goldman Sachs simulation and proposed stronger security measures.
- Completed **NPTEL** courses: **Retail Management** (79%, Elite+Silver) and **Leadership & Team Effectiveness** (68%).
- Earned certifications in **Web Development 101 (Pupilfirst)**, **AWS DevOps (Athinfosys)**, and **C++ Programming & SQL (CodeChef)**.