Darshan Kumar Bhandari

Portfolio | GitHub | LinkedIn | darshankumarbhandari11@gmail.com | +91 98014 00938

LeetCode | GeeksforGeeks | Offline Solutions

Education

Cambridge Institute of Technology North Campus — 2021 – 2025
Bachelor of Engineering, Computer Science and Engineering — **(CGPA: 9.22 / 10)**

Nalanda Academy Sr. Sec. School — 2018 - 2020
Pre-University Course, PCM — **(79.2 / 100)**

Work Experience

Python Application Development Intern — **Aqmenz Automation Pvt. Ltd.** — Oct, 2022 – Dec, 2022
- Developed and optimized a QR Code Generator for URLs using Python (qrcode, Pillow) for seamless encoding, ensuring high performance and reliability.
- Collaborated with team to design efficient solutions and conducted rigorous testing to enhance stability and overall application quality.

Projects

RentSphere: Full Stack Property Management Platform — **Live | GitHub**
- Developed RentSphere, a full-stack property management platform with MVC architecture and RESTful APIs, enabling users to explore, list, and manage rentals with secure authentication via Passport.js and session management.
- Integrated Mapbox for geolocation, Cloudinary for cloud-based image storage (reducing server load by 50%), Joi for robust validation, and connect-flash for real-time notifications, leveraging Node.js, Express.js, MongoDB, EJS, and Bootstrap for a responsive UI and optimized CRUD operations.

TradeVerse: Full Stack Stock Trading Platform — **Live | GitHub**
- Developed TradeVerse, a full-stack stock trading platform enabling seamless order management, portfolio tracking, and interactive market analysis, with a responsive UI built using React, Material UI, Bootstrap, and data-driven visualization using Chart.js.
- Built a secure backend with Node.js, Express.js, MongoDB, and JWT, ensuring secure authentication, efficient data management, BUY/SELL order execution, portfolio insights and Jest-based Unit Testing for reliability and performance.

Connectify: Real-Time Social Messaging Platform — **Live | GitHub**
- Developed Connectify, a real-time social messaging platform enabling anonymous conversations and seamless chat interactions, with a responsive UI built using React, Tailwind CSS, and Socket.io Client.
- Engineered a scalable backend with Node.js, Express.js, and Socket.io, enabling secure bidirectional communication, CORS for cross-origin requests, chat timestamps, and smooth scroll-up functionality for an engaging user experience.

TaskFlow: Full Stack Task Management Platform — **Live | GitHub**
- Developed TaskFlow, a full-stack task management platform with secure authentication using JWT and bcrypt, seamless task tracking, and a responsive UI with Tailwind CSS for an intuitive user experience.
- Built with React, Redux (state management), React Router (navigation), and Axios (API interactions), backed by Node.js, Express.js, and MongoDB, featuring CORS for cross-origin requests and real-time error handling via React Toastify.

Driver Drowsiness Detection System — **GitHub**
- Engineered a real-time Driver Drowsiness Detection System utilizing OpenCV, dlib, and SciPy for computer vision-based fatigue detection through facial landmark analysis and Eye Aspect Ratio (EAR) calculations.
- Developed a Flask-powered backend for real-time video processing and an interactive web interface with HTML, CSS, and JavaScript, ensuring seamless monitoring and instant alert activation upon drowsiness detection to enhance safety.

Technical Skills

Languages: C, Java, JavaScript (ES6+), TypeScript, SQL, MQL (MongoDB Query Language)
Developer Tools & Databases: VS Code, Git, GitHub, Git Bash, Postman API, MySQL, MongoDB, Atlas, Cloudinary
Technologies & Frameworks: HTML, CSS, Bootstrap, Tailwind CSS, jQuery, jQuery UI, Node.js, React.js, Material UI, Redux.js, Chart.js, Next.js, Express.js, EJS, RESTful APIs, WebSocket, Socket.io, Passport.js, JSON Web Token (JWT), Jest
Methods & Practices: Version Control, Session Management, User Authentication, Geocoding, MVC Architecture, Unit Testing
Relevant Coursework: Data Structures, OOPs, Operating Systems, Computer Networks, Database Management System

Awards & Achievements

- Achieved **55th** rank in VTU examinations among all engineering colleges in Karnataka during my first semester.
- Achieved **4th** place in the intra-college hackathon "**Decode to Code**".

Certifications

- **Alpha (Data Structures and Algorithms with Java)** – by Shradha Khapra on Apna College.
- **The Complete Full-Stack Web Development Bootcamp** – by Dr. Angela Yu on Udemy.
- **The Complete SQL Bootcamp** – by Jose Portilla on Udemy.