BANSI DOBARIYA

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https://myportfoliositee.vercel.app/

Professional Summary

Highly skilled software developer with expertise in JAVA, React, Node JS, and JavaScript. Proficient in competitive programming, data structures, algorithms, and API testing. Experienced in working with Mongo DB and REST APIs within the SDLC/SDTC framework. Demonstrates strong problem-solving abilities and a commitment to delivering highquality software solutions. Aims to leverage technical skills to drive innovation and efficiency in future projects.

Work History

Intern (Full stack Web Developer) (Ref: albert.boaitey@newcastle.ac.uk)

05/2025 - Present

Newcastle University(Agriculture Department) - Newcastle Upon tyne, United Kingdom

- Focusing on developing all phases of the system which is a web platform known as corporate net zero meant for monitoring and studying Net Zero goals in the food industry of 180+ companies, using Next.js, React, Node.js (API routes) and MongoDB Atlas.
- Taking full ownership of the project lifecycle, from initial concept and database design (MongoDB) to building RESTful APIs (Node.js/Next.js) and developing a responsive user interface (React).
- Rolling out a streamlined frontend powered by React/Next.js, built in complex state handling to allow people to sort and visualize the data they want at speed, using fast client-side caching and smart optimization.
- Independently translating complex requirements for a sustainability-focused web application into a fully functional platform. Successfully implemented features to track, analyze, and present intricate Net Zero target data, demonstrating strong problem-solving skills and the ability to deliver a sophisticated product from concept to deployment.

Full Stack Web Developer (Ref: recommendation letter)

09/2023 - 08/2024

Par Solution - India

- Contributed to the development of web applications by writing clean, efficient code in JavaScript, React, and Node.js under the supervision of senior developers
- Assisted in building and maintaining front-end components, ensuring user-friendly interfaces and responsive design
- Collaborated with team members to implement back-end services using Node.js, following best practices for API development and database integration
- Participated in code reviews, learning from feedback to enhance code quality and understand industry standards
- Contributed to a 20% reduction in loading times by optimizing front-end components.

Internship   07/2022 - 10/2022

APPSIANT Technology - India

- Assisted in the design and development of responsive websites using HTML, CSS, and JavaScript, enhancing user experience across various devices and browsers
- Supported the creation of front-end components using frameworks like Bootstrap and React, improving project delivery speed and code reusability
- Collaborated with senior developers to implement back-end functionality using Node.js, gaining hands-on experience with server-side programming and database integration
- Participated in the full development lifecycle, from gathering requirements to testing and deployment, contributing to multiple client projects

Skills

Web tech

Frontend:
- React.js, Next.js, JavaScript(ES6+)
- WMS (OGC-compliant Web Map Services)
- Sentinel Hub (WMS + Evalscript)
- Evalscript
- Next.js(API routing)
- HTML5 & CSS(Bootstrap and Tailwind CSS)

Backend:
- Node.js
- Postman (API Testing)
- Mongo DB
- REST API
- Express.js
- Webpack (Module Bundler)

Database
- Superbase
- Mongo DB
- PostgreSQL

Competitive programming
- Data Structure (Arrays, Stacks, Queues, Linked Lists, Advanced structures like Trees, Graphs, Heaps, and HashMaps)
- Algorithm (Sorting, Searching, Dynamic Programming,DFS/BFS)
- LeetCode Practice: Actively solving algorithmic and data structure problems on LeetCode to enhance problem-solving skills and understanding of time and space complexities.
- Java

DevOps
- AWS (EC2,EKS,S3,Lambda)

Education

Bachelor of Engineering (BEng):   09/2020 - 03/2024

Information Technology

CVM University - India – Distinction

                                                                       09/2024 - 08/2025

Master of Science: Advanced Computer Science:

Newcastle University (Russell Group)- Newcastle, UK

Certifications

- POSTMAN: API Testing
- Accenture: Coding: Development & Advanced Engineering Job Simulation Projects

Projects

ObserveSpace (https://observe-space.vercel.app/)

- Developed and deployed an interactive web app using React and Next.js to visualize and analyze environmental changes via NDVI and NDWI indices from satellite imagery.

- Integrated Google Maps API for location selection and Sentinel Hub WMS services to display time-series satellite data layers with before-and-after comparison sliders.

- Implemented NDVI and NDWI change detection with downloadable reports, enabling users to monitor vegetation health and water body changes over time.

- Designed a user-friendly, responsive interface with dynamic map interaction, date pickers, and advanced visualization tools to empower researchers and analysts in environmental monitoring.

WanderWise (https://wanderwisee.netlify.app/)

- Developed and deployed a personal travel diary web app using **React**, **Vite**, and **Netlify**, allowing users to log and visualize visited countries.

- Integrated **React-Leaflet** for interactive map rendering and **Firebase Google Authentication** for secure and seamless user login.

- Used **Context API**, **useReducer**, **useMemo**, **React.memo**, and **localStorage** to manage global state efficiently and persist
- user data.

- Designed a clean, **fully responsive UI**, optimized for both desktop and mobile devices, ensuring a smooth user experience.

AI based Trip Recommendation Site (https://wandermine.vercel.app/)

Testing credentials:email=bansidobariya2510@gmail.com pass:1234567 (Note: may take 10-15 sec at first due to free tier cold start)

- Developed and deployed an AI-powered trip recommendation web application using Next.js and MongoDB, providing personalized travel suggestions based on user preferences.

- Implemented secure user authentication with OTP verification to ensure seamless and safe access.

- Designed backend APIs for managing user profiles, trip data, and recommendations, ensuring efficient data flow and scalability.

- Created a clean, responsive UI optimized for desktop and mobile devices, enhancing user engagement and experience throughout the trip planning process.

SkillSwap (https://skillswap-swart.vercel.app/)
To check the functionality you can login with below credentials or you can sign up as well.
Login: test6@gmail.com
Password:1234567

- Spearheaded the full-stack development and Vercel deployment of "SkillSwap," a peer-to-peer skill exchange platform, utilizing Next.js (React) for a responsive frontend, Node.js (via Next.js API routes) for robust backend services, and MongoDB for database management.

- Engineered core dynamic features for "SkillSwap," including comprehensive user registration and profile management, creation and interactive Browse of skill listings (both skills offered and sought), and implemented robust search and filtering capabilities to connect users effectively.
- Developed the system enabling users to securely connect and coordinate skill-sharing sessions, designing and implementing the necessary API endpoints with Node.js/Next.js and managing data interactions with MongoDB to support these community-driven exchanges.
- Successfully delivered a feature-rich platform showcasing expertise in full-stack development with the Next.js, Node.js, React, and MongoDB ecosystem, demonstrating proficiency in building responsive user interfaces and community-focused applications from concept to deployment

Multimart (https://multimart-sepia.vercel.app/)

- Developed and deployed a full-stack e-commerce web application, leveraging React, Node.js, and Vercel for

  deployment. Designed a responsive interface using Tailwind CSS, ensuring compatibility across mobile and desktop

  devices.

- Integrated dynamic features such as product browsing, cart functionality, and user authentication for a smooth
- Successfully demonstrated expertise in full-stack development, responsive design, and modern web technologies.

Quiz System [(https://github.com/bansi1008/QuizUsingJava)](https://github.com/bansi1008/QuizUsingJava)

- Developed an interactive Quiz System using core Java, focusing on object-oriented programming principles to create a modular and maintainable codebase.

- Implemented essential features for quiz creation, question management, and scoring logic, demonstrating proficiency in data structures and algorithms.

- Designed a command-line interface to facilitate user interaction, ensuring a smooth and intuitive experience for users. Conducted thorough testing with JUnit 5, validating core functionalities and ensuring robustness through unit and integration tests.

Restaurant Landing Page (https://67c0f21d85804445893d6e71--strong-swan-afce65.netlify.app/)

- Developed a dynamic and responsive landing page for a restaurant using React. Implemented interactive features like menu display, reservation booking, and customer reviews.

- Designed a visually appealing user interface with a focus on user experience and ease of navigation.

- Ensured cross-browser compatibility and mobile responsiveness. Deployed the application on Netlify for seamless hosting and accessibility.

Bookstore with Microservices (https://github.com/bansi1008/Bookstore)

- Developed a bookstore application using React.js for the frontend and Node.js with Express.js for the backend, following a microservices architecture for scalability.

- Implemented core functionalities including book browsing, search, pagination, and a shopping cart system, allowing users to add books and proceed to checkout.

- Designed and managed two microservices: Catalog Service for CRUD operations on books using PostgreSQL as the database, and Cart Service for handling shopping cart operations, ensuring smooth transaction flow.

Secured admin functionalities with role-based authentication, allowing only authorized users to add, edit, and delete books from the catalog.

- Integrated RESTful APIs between frontend and backend services, enabling seamless data flow and real-time updates.

- Optimized database performance by structuring data efficiently in PostgreSQL, ensuring fast queries and data integrity.

- Utilized Git & GitHub for version control, maintaining a well-documented and structured codebase to facilitate team collaboration.