Lakshay Garg

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Full Stack Developer and Data Science Enthusiast with a robust background in designing and implementing dynamic, scalable web applications. Proficient in both front-end and back-end technologies, including HTML, CSS, JavaScript frameworks (React, Angular), Node.js, Express, MongoDB, and MySQL. Additionally skilled in cloud-native development, cloud computing, and DevOps practices, with certifications in Full Stack Cloud Development and Data Science from IBM. Adept at building responsive, user-friendly interfaces, integrating RESTful APIs, and leveraging machine learning algorithms to enhance application functionality. Demonstrated ability to collaborate effectively with cross-functional teams to deliver high-quality software solutions. Committed to continuous learning, currently pursuing advanced studies in data science and machine learning through UC Berkeley. Passionate about staying at the forefront of industry trends to drive innovation and deliver exceptional user experiences.

TECHNICAL SKILLS

JavaScript ES6+, CSS3, HTML5, SQL, NoSQL, GitHub, MongoDB, MySQL, Express, React, Node, Handlebars, jQuery, Bootstrap, Python, Next.js, Docker, AWS (S3, EC2, Lambda), CI/CD (Jenkins, GitHub Actions), Cloud-native development, RESTful APIs, JWT-based Authentication, Data Visualization, Machine Learning Algorithms

PROJECTS

Cognia | github.com/LakGar/cognia/

- **Summary:**Developed a connection platform using React Native, Node.js, and MongoDB to enhance communication between patients and caregivers, with a focus on long-term care tracking and providing actionable insights for improved patient care.
- Facilitated real-time communication and collaboration between patients and caregivers using WebSockets, designed to significantly improve care coordination and reduce communication delays.
- Integrated comprehensive health monitoring features using native phone APIs, aiming to offer personalized wellness insights and improve daily activity tracking for users.
- Developed features for tracking and analyzing long-term health trends, leveraging machine learning algorithms to provide caregivers with actionable insights for better patient care.
- Implemented a task and appointment management system using Node.js and MongoDB to streamline daily care routines, designed to enhance compliance and task tracking.
- Introduced a wellness scoring system using machine learning techniques (e.g., linear regression, k-means clustering), intended to help caregivers and patients track progress and set personalized health goals.

- Tools: React Native, Expo, JavaScript, Node, Express, JWT, MongoDB, R-N-health-kit

Blog App | github.com/LakGar/blog-app

- **Summary**: Developed a full-stack blog application using Next.js and Express, with MongoDB for data storage, increasing user interaction by 25% through intuitive UI/UX design and robust content management features.
- **Social Interaction**: Implemented real-time communication features using WebSockets, which enhanced user engagement by 30% by enabling instant commenting and collaboration on blog posts.. functionalities using MongoDB, improving user satisfaction and content management efficiency by 30%.
- Tools: Next.js, Expo, JavaScript, Node, Express, JWT, MongoDB

Instagram Clone | github.com/LakGar/Instagram-Clone |

- **Summary**: Developed a full-stack Instagram clone from scratch using React Native, Express, and MongoDB, focusing on secure user authentication and efficient media handling with AWS S3 and Cloudinary.
- **User Authentication**: Implemented secure user authentication using OAuth2, JWT tokens, and email verification, ensuring robust access control and enhancing user security.
- **Profile Management:** Developed customizable user profiles with functionalities to update avatars and bios using RESTful APIs, designed to enhance user personalization and engagement..
- **Media Uploads:**Enabled efficient photo and video uploads with client-side cropping and server-side processing using AWS S3 and Cloudinary, optimizing media management and reducing potential upload errors..
- **Feed and Discovery:** Built a personalized news feed and explore page using GraphQL for efficient data fetching and rendering, optimizing load times and user retention.
- **User Interaction:** Integrated likes, comments, and real-time notifications with WebSockets, enhancing user interaction and providing a seamless real-time experience.
- Tools: Expo, React-native, Express, MongoDB, JavaScript, Multer

EXPERIENCE

Web Developer | Cute Smiles | Summer 2021 - Fall 2023

- Developed and deployed a responsive, visually appealing website for Cute Smiles Daycare using React, React Router, and Styled Components, resulting in a 30% increase in user engagement through A/B testing and UX design improvements.
- Engineered live notification systems using Socket.io and WebSocket, optimizing

response times by 40% and enhancing real-time communication for the daycare owner by reducing latency and ensuring reliable delivery.
- Oversaw and maintained the website for two years, leveraging CI/CD pipelines for continuous integration, leading to 99% uptime and a 25% improvement in site responsiveness through React performance optimization and routine stress testing.
- Increased monthly income by 50% for Cute Smiles Daycare through targeted SEO strategies using Google Analytics and Search Console, improving user experience via A/B testing, and enhancing the online registration process to reduce user drop-off.
- Led the transition of Cute Smiles Daycare to a preschool by redesigning the website based on user research insights and SEO optimization, which resulted in a 25% increase in client inquiries, using targeted content and improved navigation.

EDUCATION

De Anza College | AST Computer Science | Winter 2024
- **Relevant Coursework**: Coding in C++, Data Structure and Algorithm, Software Engineering, Database Management, Linear Algebra, Assembly Language Programming

UC Berkeley | Data Science and Machine Learning Bootcamp | Ongoing
- Acquired proficiency in Python, TensorFlow, and data visualization techniques using Matplotlib and Seaborn.
- Developed a predictive analytics model for housing price estimation using Python and Scikit-learn.

CERTIFICATIONS

IBM Data Science Professional Certificate | Issued by IBM
- Proficient in Python, data analysis, and visualization using Pandas, NumPy, Matplotlib, and Seaborn.
- Applied machine learning algorithms like linear regression and k-means clustering.
- Experienced with SQL and NoSQL databases for data management.
- Completed a capstone project, developing a machine learning model to solve a real-world problem.

IBM Full Stack Software Development Professional Certificate | Issued by IBM
- Developed full-stack web applications using HTML, CSS, JavaScript, React, Node.js, and Express.
- Implemented secure authentication methods with OAuth2 and JWT.
- Gained hands-on experience in cloud computing (AWS) and DevOps practices

(CI/CD with Jenkins and GitHub Actions).
- Built and deployed scalable microservices using Docker and Kubernetes.