Sakriya Khadka

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Profile

Software Developer with two years of industry experience and three months of internship exposure. Proven expertise in designing, implementing, testing, and maintaining innovative software solutions.

Experience

BACKEND DEVELOPER | SWIVT TECHNOLOGIES | 2021 - 2023

- **Automated Report Generation & Delivery:** Built a system for automated daily, weekly, and monthly email reports
- **Subscription-Based E-Learning Platform**: Architected and deployed a scalable online learning platform with dynamic subscription management, allowing users to modify their course plans seamlessly.
- **Real-Time System Enhancements**: Leveraged WebSockets and Socket.IO to integrate real-time functionalities, including instant messaging, live notifications, and dynamic data updates, ensuring a highly interactive user experience.
- **Database Architecture & Management:** Designed and optimized database schemas for MongoDB, MySQL, and PostgreSQL, implementing efficient CRUD operations and query optimizations for enhanced data retrieval performance.
- **Third-Party API & Service Integrations:** Integrated external services such as payment gateways, social media APIs, and geolocation services, expanding platform capabilities and streamlining user interactions.
- **Custom Middleware Development:** Built reusable middleware for auth, error handling, logging
- **Testing & Debugging:** Ensured code reliability with **Mocha, Chai, and Jest** testing frameworks.

WEB DEVELOPER (INTERNSHIP) | DRY ICE SOLUTIONS | 2021 March – Jun 2021

- Developed Laravel and php applications.
- Contribution towards all phases of the development life cycle.

Education

MSC COMPUTER SCIENCE| 2023/2025 | UNIVERSITY COLLAGE BIRMINGHAM

- Achieved: Distinction
- **Dissertation:** Leveraging Supervised Learning Techniques for Fraud Detection in Banking Credit Card Transactions
  - Explored machine learning algorithms like Extra Trees for detecting fraudulent transactions.
  - Implemented data preprocessing, feature engineering, and model evaluation.
  - Achieved high detection accuracy while minimizing false positives.

BSC HONS COMPUTING | 2018/2022 | COVENTRY UNIVERSITY

Achieved: First class honours

+2 LEVEL HSEB|2014/2016|TRINITY INTERNATIONAL COLLAGE

Skills & Abilities

- Proficient in React, Flutter, Node JS, JS, Typescript, Mongo DB, MySQL, Python, C++ Photoshop, Illustrator, Github, Gitlab
- Strong problem-solving and analytical skills
- Excellent collaboration and communication abilities

Personal project

Real-time video chat application: Build with MERN stack using sockets.io, peer js, webrtc, user authentication, and email verification where the user can call and text to others in real-time

https://chatfrontend-icbn.vercel.app/

Intrusion alert system: alert system built with C++, Arduino and sensor

Face recognition system: face recognition system built with python