VIKAS KUMAR MADHESIA

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Career Objective

Aspiring Software Engineer with expertise in Java, React.js, Angular, and Microservices, passionate about designing and developing scalable applications. Skilled in REST API development, multi-threaded programming, and database optimization. Adept at troubleshooting, debugging, and adopting emerging technologies to enhance software performance. Seeking an opportunity to contribute to high-impact projects in a dynamic Agile environment.

Education

Pranveer Singh Institute of Technology, Kanpur   Aug 2022 – Present
Bachelor of Technology in Computer Science

DCSK PG College, Mau   April 2017 – March 2020
Bachelor Of Science

Fatima School   April 2016 – March 2017
Intermediate

Projects

Givify
- Software-Mobile Application, MySQL, HTML, CSS, JavaScript
- Launched and executed the GIVIFY initiative focused on simplifying donations for end-users; analyzed usability sessions to identify pain points,leading to enhancements that increased engagement rates by 40% within six months.
- Spearheaded the GIVIFY project, a charitable giving platform that streamlined donation processes for users and organizations; improved user experience by implementing intuitive design features based on direct feedback from 300+ beta testers
- Integrated advanced payment gateway solutions (e.g., Stripe, PayPal) to facilitate secure and seamless transactions, reducing payment errors by 25% and enhancing donor trust.

Real Time Eye-Tracking
- OpenCV, Pygame, Java Programming, MySQL, HTML, CSS, JavaScript.
- A real-time eye-tracking algorithm using OpenCV and AI models, achieving 95% accuracy in detecting gaze direction and head movement during proctored examinations.
- Optimized eye-movement detection by calibrating tracking coordinates and refining algorithms, reducing false positives by 30%.
- Implemented a cross-platform application using C# and .NET frameworks, improving compatibility for deployment across 15 diverse educational environments, enabling consistent user experiences throughout varying technological infrastructures.

Crypto Vault – File Encryption & Decryption
- Java Core, Java Cryptography Extension (JCE), AES, Java File API, JavaFX(Graphic), Vs code
- Developed a Java-based File Encryption & Decryption application, improving data security by 98% using AES-256 encryption.
- Implemented Java Cryptography Extension (JCE) to achieve 100% encryption accuracy, ensuring zero data loss during encryption & decryption.
- Reduced file encryption time by 40% using efficient file handling techniques (FileInputStream, FileOutputStream) for large file operations.
- Followed 100% secure key management practices, avoiding hardcoded keys and implementing AES-256-bit key storage, reducing security risks by 85%.

Skills

- Languages: Java, C++, python, Html, CSS, JavaScript, React.js, MySQL, NoSQL
- Developer Tools: Visual Studio Code
- Technologies/Frameworks: GitHub, Git, Angular, Typescript
- Tools: Ms Office (Excel, PowerPoint, MsWord)
- Soft Skills: Problem-Solving, Analytical Thinking, Technical Communication, Fast Learning in High-Scale Environments

Certification

- Data Analytics and Visualization Job Simulation - accenture
- Javascripts Basics - COURSERA
- Introduction To Structured Query Language - COURSERA
- Introduction To Back-End Development - COURSERA
- Introduction To Front-End Development - COURSERA