CRYSTAL JAIN

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Summary

Aspiring Software Engineer with strong problem-solving skills and a solid foundation in Data Structures and Algorithms. Proficient in modern web technologies including React.js, Node.js, and MongoDB, with hands-on experience building scalable full-stack applications.

Education

Graphic Era Hill University, Dehradun   **2022 - Present**
B.Tech in Computer Science and Engineering   *7.2/10 CGPA*

John Milton, Agra   **2022**
12th CBSE   *80.2 %*

Colonel's Brightland, Agra   **2020**
10th CBSE   *90.6 %*

Projects

VisionCheck – AI-Powered Eye Disease Detector *Python, TensorFlow, OpenCV,Flask,CNN*   **Source Code**

- Developed an AI-powered VisionCheck application utilizing a Convolutional Neural Network (CNN), achieving 81% accuracy in 4-class classification of eye diseases.
- Engineered a secure Flask web platform with full-stack capabilities, including user authentication, image upload, prediction display.
- Managed a dataset of over 10,000 retinal images spanning different disease categories to train and validate the model.

Full-Stack Real-Time Chat Application *MongoDB, Express.js, React.js, Node.js*   **Source Code**

- Architected and deployed a full-stack, real-time chat application using the MERN stack and WebSockets via Socket.io to achieve message latency of under 200ms.
- Engineered a secure RESTful API with 10+ endpoints for all CRUD operations, implementing JWT-based authentication and bcrypt hashing to ensure user data integrity and protection.
- Constructed a dynamic, responsive UI with React and TailwindCSS, managing global state with Zustand to create a seamless, interactive user experience with live online status indicators.
- **Live Demo available here**

CloudGuard – Secure File Backup System *Node.js, AWS S3, AWS Lambda, AWS CloudWatch*

- Designed a secure file backup platform storing and retrieving files using AWS S3, handling 10,000+ uploads/month.
- Integrated AWS Lambda and CloudWatch for automated logs, triggering alerts on 95% of suspicious access patterns.
- Implemented encryption and access control for each upload, ensuring 100% data privacy compliance.

Technical Skills

Languages: C++, Python, JavaScript, Java, C
Development: React, HTML, CSS, ReactJs, NodeJs, Tailwind, Bootstrap
Developer Tools: VS Code, GitHub, Jupyter, Postman, Insomnia
Other Libraries and Frameworks: Flask, Laravel, Streamlit, OpenCV

Relevant Coursework

- Data Structures, Algorithm Analysis, DataBase Management, Operating Systems, OOPS Concept, Machine Learning, System Design, Computer Networks

Scholastic and Co-Scholastic Achievements

- **GEHU Coding Championship – Runner-Up:** Achieved 2nd place in the annual university-level coding contest with 500+ participants.
- **Techfest Hackathon Finalist:** Reached the final round of Graphathon hosted by Graphic Era University, solving real-world tech problems.
- **College Coding Club – Core Member:** Organized coding contests and peer-learning sessions; mentored juniors in DSA and problem-solving.