Tanisha Rajpal

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Education

Vellore Institute of Technology, Bhopal   Aug 2021 – May 2025
Bachelor of Technology in Computer Science   CGPA: 9.17/10

Skills

Technical Skills: Python, SQL, FastAPI, REST APIs, MVC Architecture, MySQL, OpenAPI Documentation, Git, GitHub, Scalable backend services, CI/CD pipelines, Data Structure and Algorithms, Database Management System.

Certifications: MySQL (Kaggle) – Feb 2023, Data Analytics (Coursera) – May 2023.

Experience

HPE (Hewlett Packard Enterprise) | Software Development Intern | Link   Jan 2024 – May 2024
- Orchestrated development and optimized high-performance storage system using Distributed Asynchronous Object Storage (DAOS) on Intel hardware with CentOS 7.9 VM, enhancing efficiency by 25%
- Configured firewall settings and enabled SSH for remote access across 3 VMs, ensuring secure and reliable remote operations with a 100% boot success rate.
- Executed Java and C++ scripts for object storage interactions, achieving 20% increase in reliability.
- Spearheaded system performance through new feature implementation and code refinement, resulting in 15% improvement.

Projects

Forensic Face Construction and Recognition | Link   Oct 2024 – May 2024
- Engineered a face construction AI interface leveraging Java for backend processing and deep learning frameworks like TensorFlow and PyTorch for accurate facial reconstructions, increasing efficiency by 40% compared to traditional methods.
- Implemented a recognition model using the FaceNet algorithm, enabling the matching of criminal faces with an accuracy rate of 95%, significantly higher than the 70% accuracy of traditional methods.
- Integrated CNNs to improve the precision of facial features, resulting in a 30% reduction in identification errors.
- Executed validation and testing, enhancing system reliability and performance by 25%.

Real-time Web Chat Application | Link   Jan 2023 – May 2023
- Developed a robust backend using Python and MySQL, enabling seamless real-time communication, and supporting up to 1,000 concurrent users.
- Engineered an efficient database schema in MySQL, improving data retrieval speed by 30% and ensuring consistent performance under high load.
- Established user authentication and authorization, enhancing security and reducing unauthorized access incidents by 50%.
- Designed and integrated a user-friendly interface, resulting in a 25% increase in user engagement and a 20% boost in user retention.
- Facilitated in-depth user testing sessions, incorporating feedback to enhance the user experience by 35%, resulting in a significant boost in overall satisfaction and positive reviews.

Extra-Curricular and Achievements

Coding Hackathon and Coding Platforms   May 2022 – May 2024
- Secured Global Rank 527 in Java and DSA (GeeksforGeeks) | Link
- Competed in Codeathon in Feb 2022, inter-NIT coding competition | Link

SAP Ramanujan Mathematics Club   May 2022 – May 2023
- Designed graphics for 10+ club events, enhancing visual communication and engagement.

Additional Information

Languages: English(Fluent), Hindi(Native), Japanese(Beginner) | **Hobbies:** Cooking