

Tanisha Rajpal

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Education

Vellore Institute of Technology, Bhopal
Bachelor of Technology in Computer Science

Aug 2021 – May 2025
CGPA: 9.29/10

Skills

Technical Skills: Java, C++, JavaScript, ReactJS, NodeJS, Data Structure and Algorithms, Object-Oriented Design, Design Patterns, API Development, MySQL, NoSQL, Git, Jenkins, Docker, Linux, Data Analytics, Machine Learning, Generative AI.
Certifications: MySQL (Kaggle) – Feb 2023, Data Analytics (Coursera) – May 2023, Robotic Process Automation – Aug 2023

Experience

HPE (Hewlett Packard Enterprise) | Software Development Intern 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 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 Jan 2023 – May 2023

- Developed a robust backend using Java 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), Achieved 3-star in Java and Mysql (HackerRank).
- Competed in Codeathon in Feb 2022, inter-NIT coding competition, and participated in Smart India Hackathon in Mar 2024, creating an automatic drug dispenser that reduced processing time by 20%.

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