

VISHOO VERMA

Summary

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- Recent B.Tech graduate with a strong foundation in backend development, eager to apply and expand skills in a dynamic environment. Experienced in developing robust APIs and backend services, with a track record of improving system performance and efficiency.

Education

Delhi Technological University, Delhi

B.Tech in Engineering Physics with Minor in Computer Science

April 2020 – May 2024

8.4/10 CGPA

LVM School, Delhi

Class XII - Central Board of Secondary Education

May 2017 – March 2018

75%

Technical Skills

Programming languages: Java, C++, Python, TypeScript, SQL, HTML, CSS

Backend systems: Django, Node.js, Express.js, Java, Spring Boot

Frontend: Next, React, TailwindCSS, HTML, CSS, Bootstrap

Clouds & Databases: AWS, MongoDB, Vercel, SQL, NoSQL

Web Technologies: Docker, Socket.IO, Redux, Kafka, Kubernetes, NumPy, TensorFlow, MatLab, OpenCV

Developer Tools: Postman, VS Code, GitHub, Jupyter, PyTorch, Sublime, Unix Command Line

Additional Skills: API Development, Backend Services, Code Reviews, Team Collaboration

Work Experience

Drishti iHub TIH-IIT, Jodhpur

Software Development Intern

June 2023 – August 2023

Onsite

- Diagnosis of Multi-Drug Resistant Tuberculosis through whole genome sequencing using NLP Algorithms (Bert/DNABert) and received funding for the project from the Ministry of Science and Technology
- Engineered a Python web scraping program to collect comprehensive TB patient data; validated research findings and optimized data accuracy, significantly enhancing study reliability by 70%
- Implemented a haptic-based medical simulator for palpation and tele-diagnosis using the Random Forest algorithm in MATLAB and Chai3D; increased accuracy of medical diagnoses by 90% and reduced palpation training time by 50%.

Delhi Technological University/IIIT Hyderabad

Machine Learning Research Intern

June 2022 – August 2022

Onsite

- Led annotation of the Indian Demographic Dataset under the guidance of Prof. S. Indu (Dean SW, DTU), resulting in a comprehensive database comprising over 500 demographic variables.
- Achieved a 40% increase in the detection accuracy of miscellaneous objects and a 65% reduction in error rates.

Projects

Employee Data Management System- Java Spring Boot

[Source Code](#)

- Developed comprehensive REST APIs for managing employee data, handling 1,000 employees data with 99.9% uptime.
- Implemented caching and improving response time by 35%, handling 100+ concurrent users.
- Enabled cache refresh every 5 minutes and warmup calls to prevent server cold start, increasing system up-time by 99%.
- Utilized custom exceptions for refined error handling, enhancing user experience.

Payment Microservice with Razorpay Integration - Java Spring Boot

[Source Code](#)

- * Java, Spring Boot, MySQL, Razorpay SDK, Spring Data JPA, Lombok, Postman, IntelliJ IDEA
- * Successfully processed over 500 payment transactions in the test environment with 100% accuracy.
- * Reduced payment processing time by 30% compared to the previous solution, handling 50 transactions per second.
- * Improved system reliability with 99% uptime during testing.

Task Manager API with Phone Call Reminders using Node Cron Scheduling

[Source Code](#)

- * Designed Task Manager API handling 1000+ daily active users, with 99.5% successful phone call reminders.
- * Scaled the application to handle a 200% increase in user load and integrated 5 new features through refactoring.
- * Debugged and maintained the system to ensure seamless operation with essential error handling
- * Deployed system on secure platform, improved performance, and streamlined processes for enhanced productivity

Algorithmic Competitions/Achievements

- Solved over 500 DSA problems, achieved a top 5% ranking on coding platforms and a skilled competitive programmer.
- Participated in 10+ hackathons, including Smart India Hackathon University Finalist 2023 as Team Captain, showcasing leadership and collaborative skills.
- Runner up in Business Hackathon by Delhi Management Association
- Directed the Prefectorial Board as Head Boy, achieving a 15% rise in student involvement in extracurricular activities and earning the Versatile Virtuoso award for exceptional academic and program contributions.