Dheeraj Nair

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OBJECTIVE

Aspiring Software Developer with a passion for innovative technology and hands-on development. Experienced in building Java-based web applications using Servlets, JSP, JDBC, and H2 Database. Strong command over Python, OpenCV, and MediaPipe for gesture-controlled and AI-powered desktop applications. Familiar with tools like Apache Tomcat, IntelliJ, Maven, and Git. A fast learner and team player actively upskilling in full-stack development, data structures, and system design. Seeking impactful opportunities to contribute to real-world projects and grow as a developer.

EDUCATION

MIT-ADT University   Pune, India
Bachelor of Technology in Computer Science   *Sep. 2022 – Present*

Sanjay Ghodawat International School   Kolhapur, Maharashtra
CBSE , XII   *Aug 2022*

K.C.T Krishna School   Karad, Maharashtra
CBSE , X   *July 2020*

TECHNICAL SKILLS

Languages: JAVA, Python (Proficient), JavaScript (Intermediate), HTML/CSS (Intermediate)
Frameworks: React, FastAPI
Tools: Git, Visual Studio Code, Jupyter Notebooks
Libraries: Pandas, NumPy, Matplotlib
Concepts: Object-Oriented Design, Algorithm Design, Data Structures, User Interface (UI) Design, API Integration

PROJECTS

Virtual-Mouse | *Python, OpenCV, Mediapipe*
- The Virtual Mouse project enables users to control their computer mouse using only hand gestures, captured in real-time via webcam. Built with Python, OpenCV, and MediaPipe, the system detects hand landmarks and translates finger movements into mouse actions.
- This hands-free interface mimics traditional mouse functionality and demonstrates realtime computer vision, gesture recognition, and automation.

Social Sphere | *Java , JDBC, Servlets*
- SocialSphere is a Java EE–based social networking web application that allows users to register, log in, create posts, and engage with comments in real time. Built using Servlets, JSP, and H2 Database,
- With session-based login, dynamic timeline generation, and secure data handling, SocialSphere mimics a basic social media platform with an interactive and responsive user interface.

LEADERSHIP / INVOLVEMENT

JAVA BREWERS CLUB — Vice President —[Aug 2024 – Present]

Organizing coding bootcamps and workshops to promote community engagement and skill development.

Assisted in planning events aimed at fostering collaboration and knowledge-sharing among peers.

INTERESTS

Building AI-powered desktop and web applications
Gesture recognition and computer vision (OpenCV, MediaPipe)
Full-stack development (Java, Servlets, JSP, H2 DB)

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