

Nikhil Verma

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CAREER OBJECTIVE

Aspiring Computer Science Engineer with a passion for developing innovative solutions. Seeking opportunities to apply my skills in software development, machine learning, and web technologies while contributing to challenging projects.

EDUCATION

- **Chandigarh University** Aug 2023 – Jun 2027 (Expected)
B.E. in Computer Science and Engineering CGPA: 7.56/10.0
- **Army Public School, Yol** Apr 2021 – Mar 2022
Secondary Education (12th Standard) Percentage: 87.6%

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript, Java, Go, SQL
- **Web Technologies:** ReactJS, NodeJS, ExpressJS, HTML, CSS
- **Databases:** MongoDB, MySQL
- **Tools & Frameworks:** Git, Visual Studio, Scikit-learn, OpenCV, Pandas, NumPy, Prisma, JWT, Zod, Bcrypt
- **Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Machine Learning, Distributed Systems, Unix/Linux
- **Soft Skills:** Problem Solving, Teamwork, Communication, Leadership

WORK EXPERIENCE

- **Renu Sharma Foundation (Remote)** Jan 2024 – Present
Web Developer Intern
 - Developed and maintained frontend components using ReactJS and modern JavaScript frameworks.
 - Ensured UI responsiveness, cross-browser compatibility, and adherence to web development best practices.
 - Collaborated with remote teams for timely project delivery and participated in code reviews.

PROJECTS

- **Login and Registration Backend**
Node.js, Express, Prisma, JWT, Zod, Bcrypt
 - Implemented JWT token-based authentication for secure user sessions and data integrity.
 - Leveraged Prisma ORM for efficient database queries and schema validation using Zod.
 - Enhanced security with bcrypt password hashing and robust input validation.
- **Bus Path Finder**
ReactJS, NodeJS, ExpressJS, Google Maps API
 - Developed a real-time bus route visualization system integrating Google Maps API.
 - Designed user-friendly interfaces for route planning and schedule access.
 - Optimized backend services for performance and scalability.
- **Mouse Control Using Hand Gestures**
Python, OpenCV, MediaPipe, Scikit-learn
 - Built a system for controlling mouse cursor via webcam using hand gestures.
 - Employed Random Forest Classifier and MediaPipe for accurate gesture recognition.
 - Integrated computer vision pipelines for real-time image processing.

CERTIFICATIONS

- Machine Learning Specialization – DeepLearning.AI (Coursera)
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ACHIEVEMENTS & ACTIVITIES

- 3rd Position, Mathematics Quiz Competition (1st Semester)
- Class Representative, 3rd Semester (Leadership & Communication)
- Solved 150+ Data Structures and Algorithms problems on Coding Ninjas
- Active member, University Coding Club (Participated in coding competitions and workshops)
- Active participation in Competitive Programming contests

LANGUAGES

- Hindi: Native Proficiency
- English: Professional Working Proficiency

INTERESTS

Chess, Competitive Programming, Singing, Cooking, Cycling, Badminton