Aakarsh kumar

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EDUCATION

Chandigarh University **Mohali,Punjab**
Master of computer Application(MCA) Expected Graduation, 2025
CGPA: 7.26

PROFILE SUMMARY

Skilled Software Developer with expertise in Java, Python, specializing in secure web and mobile development. Proficient in SQL and Node.js, with a strong foundation in ethical hacking and cybersecurity. Dedicated to building robust and innovative solutions that enhance user experience and protect digital assets.

PROFESSIONAL EXPERIENCE

Software Developer Intern 02/2024 – 05/2024 │ Mohali, India
Zero IT Solutions
- Designed and implemented RESTful APIs to support seamless data exchange between front-end applications and databases.
- Optimized backend systems to enhance performance and response times under high traffic loads.
- Developed server-side logic to handle complex business processes and ensure data integrity.
- Conducted database design and management, including writing efficient queries and optimizing schemas for relational and NoSQL databases.

SKILLS

Programming
Java, Python, HTML, CSS, Node.js, Express.js, SQL, MSExcel, MongoDB, Linux, Kotlin (Android Development) Fundamentals and Ethical Hacking.

PROJECTS

Real-Time Multi-Face Attendance System with Anti-Spoofing Mechanism
Technologies: Python, OpenCV, NumPy, scikit-learn, Flask, HTML
- • Developed a **real-time facial recognition system** capable of detecting and recognizing multiple faces simultaneously, ensuring efficient attendance tracking.
- • Implemented an **anti-spoofing mechanism** using OpenCV and scikit-learn to prevent fraudulent attempts using images, videos, or masks.
- Utilized **NumPy for numerical computations** and OpenCV for **image processing** to ensure fast and reliable face detection.

Automatic Speech Recognition
Technolgies: Kotlin, Text-to-Speech , Speech-to-Text , Translation API, Android Studio
- Designed and implemented an **Automatic Speech Recognition System** in Android Studio, enabling seamless voice-based functionality.
- Integrated a robust **Translation API** to provide multilingual support, enhancing accessibility for a global user base.
- Optimized speech recognition algorithms for higher accuracy and real-time performance across varying environments.

CERTIFICATE

Certified Ethical Hacker 🔗
- Earned the globally recognized **Certified Ethical Hacker (CEH)** certification, validating expertise in ethical hacking techniques and cybersecurity practices.
- Demonstrated advanced skills in identifying, analyzing, and mitigating security vulnerabilities in systems, networks, and applications.
- Acquired in-depth knowledge of penetration testing methodologies, malware threats, and risk assessment strategies.