SHIV KUMAR

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Education

Fast National University - 6th Semester   **Aug. 2021 – Present**
Bachelor of Science in Computer Science (CGPA: 3.51)   *Karachi, Pakistan*

Summary

Fascinated by both web development and computer vision, I'm eager to bring my skills to the table. I'm excited about applying what I know to make a difference in meaningful projects

Projects

OCR-Based Annotation and Document Management System | *Python, PyTesseract, OpenCV*   **Present**
- Currently developing an OCR-based annotation and document management system using Python, PyTesseract, and OpenCV.
- Implementing features for digitizing documents and extracting text from scanned documents of any format and multiple languages using PyTesseract and OpenCV.
- Designing intuitive annotation tools for highlighting, commenting, and marking up documents.
- Incorporating robust document organization functionalities for categorizing, tagging, and searching documents.

Animated Geometric Algorithms | *Python, Tkinter*   **2023**
- Implemented Convex Hull, Line, and Closest Pair of Points algorithms using Python and Tkinter for visualization.
- Developed animated visualizations to demonstrate the execution of these algorithms step by step.
- Utilized Tkinter for creating interactive GUIs, allowing users to visualize algorithmic processes in real-time.

E-commerce Website | *ReactJS, ExpressJS, NodeJS, MySQL*   **2023**
- Led development of e-commerce site using ReactJS, ExpressJS/NodeJS, and MySQL.
- Implemented multiple categories for users to buy items.
- Integrated promo codes functionality for discounts on purchases.
- Developed RESTful APIs for efficient client-server communication.

Food Ordering App | *Java, Android Studio*   **2022**
- Developed dynamic food ordering app with secure login, local storage, and intuitive search functionality.
- Utilized SQLite for efficient data management of user profiles, orders, and favorites.
- Integrated popular food lists for enhanced user engagement and discovery of trending items.

Bank Management System | *Java, Java Swing*   **2021**
- Developed feature-rich bank management system in Java with Java Swing for intuitive GUI.
- Implemented basic bank operations such as account creation, deposits, withdrawals, and transfers.
- Added utility bill payment and loan management functionalities.
- Utilized object-oriented programming, including inheritance, for scalability and flexibility.

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL, NoSQL
Developer Tools: VS Code, Intellij IDEA, Android Studio, PyCharm, Jupyter Notebook
Technologies/Frameworks: MERN, PyTesseract, Pandas, Numpy, sci-kit, OpenCV, EasyOCR

Certifications / Achievements

- **IEEEXtreme 17.0 24 Hour Programming Competition**
  Global Rank: 724, Country Rank: 10

- **Softec'23 Programming Competition - Top 10**

- **Machine Learning Specialization - Coursera**

- **JavaScript, ReactJS, OCR - Udemy**