

SHIV KUMAR

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Education

National University of Computer and Emerging Sciences

September 2021 – Present

Bachelor of Science in Computer Science

CGPA: 3.5/4.0

Summary

Passionate about web development and artificial intelligence, with a keen interest in leveraging technology to create innovative solutions. Seeking opportunities to apply and further develop skills in both areas for impactful projects.

Projects

OCR-Based Annotation and Document Management System | *Python, OpenCV, PyMuPdf* **Mar 2024 - May 2024**

- Developed an OCR-based annotation and document management system using Python, Flask, React, OpenCV, PyMuPdf, and Information Retrieval techniques.
- Implemented robust OCR capabilities with OpenCV and PyMuPdf, enabling accurate text extraction from various document formats.
- Designed an intuitive user interface with React for efficient document annotation, organization, and search functionalities.
- Utilized Information Retrieval techniques such as Vector Space Model (VSM) to enhance document search and retrieval accuracy.

Animated Geometric Algorithms | *Python, Tkinter*

Nov 2023 - Dec 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*

Sept 2023 - Nov 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*

Sept 2022 - Oct 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.

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL, NoSQL

Developer Tools: VS Code, IntelliJ IDEA, Android Studio, PyCharm, Jupyter Notebook, GitHub

Technologies/Frameworks: MERN, Pandas, Numpy, sklearn, OpenCV, OOP, DSA

Achievements

• **IEEEExtreme 17.0 24 Hour Programming Competition**

Country Rank: 10

• **Dean's List**

Fall 2021, Fall 2022, Spring 2023

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

Certifications

• **Machine Learning Specialization:** Coursera

• **JavaScript, NodeJS, ReactJS, OCR, Computer Vision:** Udemy