VED PRAKASH MAURYA

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EXPERIENCE

Reliance Foundation Scholar & Mentor   **Jan 2024 – Present**
Reliance Foundation
- Selected for academic excellence and leadership potential.
- Mentoring students in data structures, algorithms, and web development.

Software Engineer Intern   **Aug 2024 – Mar 2025 (Expected)**
Virtual Labs IIT Bombay
- Designing webpages of experiments which include simple animations and making graphs using html ,css,js,d3.js

PROJECTS

Photo and Audio Slideshow Web Application   🌐 prock.onrender.com
- Built a full-stack web app for creating slideshow videos with image uploads, audio integration, and video customization.
- Implemented secure authentication using Flask's `flask-login` and scalable media storage with CockroachDB.
- Deployed on Render to ensure high availability and seamless user access.

Airline Database System   ⌗ GitHub
- Designed normalized schemas to minimize redundancy in the database.
- Made a cli interface

C Shell   ⌗ GitHub
- Bash-like command interpreter, written in C Support for process management, piping/redirection and built-in as well as system commands
- Enabled user-defined aliases for enhanced customization.

Advanced xv6   ⌗ GitHub
- Improved xv6 with new scheduling techniques, system calls and user programs.
- Analysis of different scheduling algorithms is done using Python.

Networking Projects   ⌗ GitHub
- This project implements a basic Network File System (NFS) using a client-server architecture with a Naming Server, Storage Servers, and Clients. The key components work together to manage file storage and ensure that clients can access and modify files across multiple storage servers
- The system facilitates file operations such as reading, writing, copying,deleting, and streaming audio files.
- Developed a multiplayer Tic-Tac-Toe game using TCP and UDP.
- Created a UDP-based TCP simulation with sequencing and retransmissions.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL, Bash
Frameworks: Flask, Django, React, Node.js, TensorFlow
Libraries: Pandas, NumPy, OpenCV, Matplotlib,D3.js
Tools: Git, VSCode, Linux, LaTeX

RELEVANT COURSES

Programming: Computer Programming, DSA, Introduction to Software Systems,Data Visualisation

Mathematics: Linear Algebra, Probability and Statistics, Discrete Maths, Real Analysis.

System Design: Operating Systems, Computer Systems Organization.

Networking: Computer Networks, Introduction to IoT.

EDUCATION

International Institute of Information Technology Hyderabad   **Hyderabad, India**
B.Tech in Computer Science and Engineering   Expected: 2027
Jawahar Navodaya Vidyalaya   **Prayagraj, India**
Class XII CBSE; 91.3%   2023

AWARDS

- Swachhta Sarthi Award (2020-21): Recognized for a mini-startup proposal under Niti Aayog's Waste to Wealth mission.The SSF is a program that recognizes young people who work on waste management in India.