Pranav P

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EDUCATION

COLLEGE OF ENGINEERING TRIVANDRUM
MCA
Jun 2024 | Trivandrum, Kerala

CMS COLLEGE KOTTAYAM
BSc MATHEMATICS
Apr 2022 | Kottayam, Kerala
Cum. GPA: 9.06 / 10.0
Major GPA: 9.41 / 10.0

HOLY FAMILY HSS CHERTHALA
Mar 2019 | Cherthala, Kerala
Score: 98.5%

LINKS

Github:// **pranavkaruvally**
LinkedIn:// **pranav-p-76b901183**

SKILLS

PROGRAMMING
Over 5000 lines:
• Python • C++ • Dart
Over 1000 lines:
• C • Shell • Javascript
• HTML • CSS • LaTeX
• Rust

FRAMEWORKS AND TECHNOLOGY
• Linux • Flutter • Git
• Django • React • MySQL

COURSEWORK

GRADUATE
Data Structures
Software Engineering
Computer Networks
Database Management Systems
Functional Programming

UNDERGRADUATE
Discrete Mathematics
Linear Algebra
Abstract Algebra
Graph Theory
Calculus
Statistics

ROLES

• Technical coordinator
(Association of Students of Computer Applications)

EXPERIENCE

FOSSEE, IIT BOMBAY | SEMESTER LONG INTERN
Feb 2023 – Jul 2023 | IIT Bombay, Mumbai
- Added four new features into the eSim software(an open source EDA similar to LTspice) developed by the FOSSEE eSim team at IIT Bombay under the mentorship of project assistants Sumanto Kar and Rahul Pakniker.
- Implemented multithreading using slots and signals to prevent the PyQt event loop from sleeping allowing two or more tasks to be done during simulation simultaneously.

PROJECT

PICZA - SOCIAL MEDIA APPLICATION | FREELANCE PROJECT
Flutter | Hive | Django | Redis | Celery | PostgreSQL
- As a team of two, co-created a social media platform for college during pandemic to improve connectivity among students.
- Incorporated features such as a low latency chat system powered by **websockets**, stories and media posts. Wrote the mobile application using Flutter, a cross-platform framework and the backend using Django.

ANALYSIS OF PAGERANK ALGORITHM | ACADEMIC PROJECT
Django | NumPy | Beautiful Soup | Scrapy
- Modeled a sample of the Internet using Django and devised a search engine that utilizes the PageRank algorithm with a team of four.
- Examined how graph theory and linear algebra played an important role in the invention of the PageRank Algorithm.

FLITWICK - MUSIC PLAYER
C++ | FLTK | SDL
Currently developing a retro-style low-latency music player in C++. The UI is built using FLTK and the audio processing is done via the SDL library.

GUI FOR VERILATOR
PyQt | cx-Freeze | Bash
Developed a GUI for the command line tool called Verilator using PyQt and built a Linux installer using cxfreeze and Bash.

HABIT TRACKER
Flutter | Hive
Devised a simple habit tracker in Flutter having storage capabilities built around the NoSQL database Hive

SCREENLIGHTUP
Python | OpenCV
Deployed a Python script with the help of OpenCV which takes a snapshot using a webcam and analyses the photograph to adjust the screen's brightness in accordance with the surroundings.

AWARDS

Year	Rank	Award
2023	2nd	ESPOIR: All Kerala Inter-Collegiate maths quiz
2022	2nd Rank	LBS MCA Entrance examination
2019	1st	All Kerala Inter-Collegiate maths quiz *(K.E Mannanam)*
2019	1st	Inter-Collegiate maths quiz *(Alphonsa College)*
2019	Top 1% in state board	Inspire SHE-Scholarship