Pranav P

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EDUCATION

College of Engineering Trivandrum, Kerala India

Master of Computer Applications Expected Jun 2024

CMS College Kottayam, Kerala India

BSc. Mathematics
Cumulative GPA: 9.06

Jun 2019 – Apr 2022

Holy Family HSS Cherthala

Plus Two (PCMC)

Score: 98.5% Jun 2017 – Mar 2019

INTERNSHIPS

FOSSEE, IIT Bombay

Semester long Internship 2023

Feb 2023 - Jul 2023

- Selected as one of the only two candidates through a screening task. Result: https://fossee.in/semester-internship/2023/results
- Added four new features in eSim(an open source EDA) developed by the FOSSEE eSim team at IIT Bombay under the mentorship of project assistants Sumanto Kar and Rahul Pakniker.
- Suppressed output graphs automatically generated by ngspice during simulation and added GUI elements using PvQt.
- 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.

PROJECTS

GUI for Verilator Jan 2023

- Developed a GUI for the command line tool called **Verilator** using **PyQt**.
 - Built an installer for Linux using cxfreeze and bash independent of various distros.

Analysis of PageRank Algorithm (Academic project)

Apr 2022

- Modeled a sample of the internet using Django and devised a search engine that utilizes the PageRank Algorithm with a team of four.
- Analysed the computational complexities of the algorithm.
- Examined how graph theory and linear algebra played an important role in the invention of the PageRank Algorithm.

PICZA - Social media application (Freelance project)

Jul 2021

- 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, media posts, voice and video calls powered by WebRTC etc.
- Wrote the mobile application using Flutter, a cross-platform framework and the backend using Django.
- Deployed the application on a Microsoft Azure VPS and performed server load testing using Apache JMeter to 90% of total capacity.

ADDITIONAL

Technical Skills: Python, Django, PyQt, Flutter, C, Linux, Bash, Git

Scholarships: *INSPIRE SHE Scholarship* | Awarded to students who secured the **top 1 percentile** in their respective boards in the 12th examination.

Activities: Technical coordinator | Association of Students of Computer Applications (ASCA)

Achievements: Secured 2nd rank in MCA Entrance examination conducted by LBS

Awards: Winner of All Kerala Inter-Collegiate mathematics quiz | K.E Mannanam (2019) Winner of Inter-Collegiate mathematics quiz | Alphonsa College (2019), First runner-up in ESPOIR: All Kerala Inter-Collegiate mathematics quiz (2023)

Certificates: Discrete Mathematics | NPTEL (Topper), The Joy of Computing using Python | NPTEL (Silver badge), JavaScript Algorithms and Data Structures | FreeCodeCamp