Parimal Prasoon

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EDUCATION

VIT BHOPAL UNIVERSITY

B.Tech in Computer Science and Engineering

Expected May 2021

WORK EXPERIENCE

KWIKPIC | SOFTWARE ENGINEERING INTERN

Jan 2021 - Present

- Implemented Django middleware to restrict access to views based on IP addresses.
- Integrated Django Channels into the product to make use of web-socket connections as well as background worker processes to offload tasks.

GOHIRED | TECHNICAL CONTENT CREATOR

Oct 2019 - Jan 2020

• Created articles and tutorials on algorithmic questions asked in technical interviews.

LINKS

GitHub:// Parimal7 LinkedIn:// parimal7 Codechef:// parimal7 HackerEarth:// @parimal_7 HackerRank:// pairmal7

COURSEWORK

- Data Structures and Algorithms
- Operating Systems
- Artificial Intelligence
- Computer Networks
- Database Management Systems
- Design and Analysis of Algorithms

SKILLS AND INTERESTS

Programming Languages

C • C++ • Python • Java • JavaScript **Tools**

Vim • CMake • LATEX • Git • Heroku

Frameworks

Django • SFML

Databases

MySql • SQLite

TECHNICAL PROJECTS

RAW IMAGE PROCESSOR | DIGITAL IMAGE PROCESSING | GITHUB LINK

- Built a C++ application which converts RAW file format generated by digital cameras into a bitmap file.
- Implemented linear interpolation for debayering the RGB image.
- Added dynamic linking to reduce executable file size.
- Created a CMake script to build the full project.

CHESS BOT | ARTIFICIAL INTELLIGENCE | GITHUB LINK

- Built a chess playing bot in **JavaScript**. Used libraries chess.js for move generation and chessboard.js for board visualization.
- Implemented mini-max algorithm for decision making, searching up to a depth level of three.
- Optimized the algorithm using alpha-beta pruning.

connections as well as background worker PORTFOLIO WEBSITE | WEB DEVELOPMENT | WEBSITE LINK

- Created a portfolio / blog web application from scratch using the **Django** framework.
- Integrated markdown editor for better text editing and rendering through Django admin.
- Deployed the site on **Heroku**.

SQLITE-CLONE | DATABASES | GITHUB LINK

- Programmed a database from scratch in **C** programming language.
- Added persistence to disk and cursor abstraction for tracking rows.
- Implemented B+ tree from scratch for efficient insertion and searching.

PATHFINDING VISUALIZER | ALGORITHMS | GITHUB LINK

- Created a desktop application to find shortest path from source to destination in a given map.
- Implemented Dijktra's and A* algorithms from scratch for pathfinding using C++.
- Built the graphical user interface using **SFML**.

WEB SERVER | COMPUTER NETWORKS | GITHUB LINK

- Implemented a simple web server in **Python** that can handle concurrent connection requests.
- Added Python Web Server Gateway Interface support.
- Solved the problem of zombie processes by implementing a signal handler and wait system call.

PROGRAMMING COMPETITIONS

2020 19th/630 Data Structures and Algorithms, HackerEarth 2019 543th/20,000+ Codechef August Long Challenge, 2019 2019 223th/6,000+ Codechef May Long Challenge, 2019