Parimal Prasoon

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EDUCATION

VIT BHOPAL UNIVERSITY
B.Tech in Computer Science and Engineering
Expected May 2021

WORK EXPERIENCE

GOHIRED | Technical Content Creator
Oct 2019 – Jan 2020 | Remote Internship
•Created articles and tutorials on algorithmic questions asked in technical interviews.

VIT BHOPAL CODECHEF CHAPTER | Problem Setter
Oct 2018
•Organized programming contest Co-Decode for the college Codechef chapter.

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
- Software Defined Networks

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.

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