Abhiram S

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EDUCATION

National Institute of Technology Calicut — Jul 2018 – Jun 2022
Bachelor of Technology in Civil Engineering — *Kozhikode, Kerala*
- Graduated with 8.1 CGPA (81%).

Kendriya Vidyalaya Pattom — Apr 2016 – Feb 2018
Thiruvananthapuram, Kerala
- Class XII – 93.6% (Computer Science), Class X – 95%.

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Object-Oriented Design
- Operating Systems
- Database Management

EXPERIENCE

Vidyakansha — May 2021 – Jul 2021
Creative Content Developer — *Remote*
- **Supervised** a team of 6 interns to ensure proper delivery of the content repository and **meet the production targets**.
- Achieved a **33% improvement in productivity** by creating roadmaps, status reports and constructive feedback system.
- Collaborated with the team to help rural students to achieve **application-based learning** through educational software.

PROJECTS

Traffic Signal Timing Optimization | *Source Code* — Mar 2022
- Designed an **intelligent transportation system** for traffic flow control by signal timing optimization on simulated traffic.
- Used **Python** and **Numpy** to implement **optimization algorithms** like Genetic algorithm and Ant Colony algorithm.
- Utilized **Matplotlib** to visualize the results and compared the total delay after applying the optimization algorithms.
- Achieved a **22% reduction in the total delay** using Ant Colony algorithm, which produced better results than GA.

Eduserver Attendance Automation Bot | *Source Code* — Feb 2022
- Developed an automatic bot using **Python** to **mark attendance** on Eduserver every day and **open the class** on time.
- Implemented **Selenium** to create an instance of Chrome to log in and interact with the correct elements of the webpage.
- Used Task Scheduler to **schedule the program** to execute automatically at 7 AM every weekday to mark attendance.
- Used by more than **40 students** to get **100% attendance** by adding their credentials and modifying the timetable.

Personal Schedule Manager | *Source Code* — Jul 2021
- Created a schedule manager using **Python** and **ReactJS** to view tasks and sort tasks by due date and importance.
- Implemented user-registration using **Flask** and **SQLite** with options to **add, remove, edit** tasks, and **alert** overdue tasks.
- Incorporated **object-oriented design** practices such as inheritance to create different account types and databases.

Personal Portfolio Website | *Source Code* — Jan 2021
- Designed a portfolio website using **ReactJS** for front-end, back-end on **NodeJS** and **ExpressJS** and hosted on **Vercel**.
- Features Github projects, coding profiles, technical skills, resume and contact details with a **responsive web design**.
- Integrated **Github contribution graph**, option to star and fork the code and used **tsParticles** to add animated background.

TECHNICAL SKILLS

Languages – Python, C++, JavaScript, SQL, MATLAB, HTML, CSS

Technologies/Frameworks – ReactJS, NodeJS, ExpressJS, Flask

Developer Tools – Git, PostgreSQL, MongoDB, SQLite, Heroku, Vercel

Familiar – Java, REST API, Django, Selenium, Linux, Docker, Bootstrap, Bash

ACHIEVEMENTS

- Secured 93.62 percentile in Common Admission Test (CAT) 2021.
- Secured 98.07 percentile in Joint Entrance Examination (JEE Main) 2018.
- Solved more than 300 problems across leetcode, geeksforgeeks and codeforces.

CERTIFICATES

- Programming for Everybody (Getting Started with Python) - University of Michigan