

# Abhiram S

8921180389 · abhirams2020@gmail.com · Chempazhanthy, Thiruvananthapuram, Kerala

linkedin.com/in/abhirams2020 · github.com/abhirams2020 · leetcode.com/abhirams2020 · abhirams2020.vercel.app

## 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

- Class XII – 93.6% (Computer Science), Class X – 95%.

Thiruvananthapuram, Kerala

## 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, jQuery

**Developer Tools:** Git, PostgreSQL, MongoDB, SQLite, Heroku, Vercel

**Familiar:** Java, Docker, Linux, REST API, Django, Selenium, 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