

# 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.

### Kendriya Vidyalaya Pattom

Apr 2016 – Feb 2018

*Higher Secondary, Computer Science*

*Thiruvananthapuram, Kerala*

- Secured 93.6% in AISSCE.

## 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 junior interns and achieved a 33% improvement in productivity by streamlining the workflow.
- Facilitated rural students to achieve application-based learning through educational software and an organized syllabus.
- Collaborated with the core members of the team to ensure proper outcome and delivery of the content repository.

## Projects

### Traffic Signal Timing Optimization for Isolated Signals | Python, Numpy, Matplotlib, Colab

Mar 2022

- Designed an intelligent transportation system for traffic flow control by traffic signal optimization on simulated traffic.
- Used Python to implement optimization algorithms like Ant Colony and Genetic algorithm for finding the optimal path.
- 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 | Python, Selenium, Batchfile

Feb 2022

- Developed an automatic bot using Python to mark the 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 web page.
- Used Task Scheduler to schedule the program to execute automatically at 7 AM every weekday to mark the attendance.
- Assisted more than 40 students to get 100% attendance by adding their credentials and modifying the timetable file.

### Personal Schedule Manager | Python, ReactJS, Flask, SQLite, Jinja, Bootstrap, CSS

Jul 2021

- Created a schedule manager using Python and React to view tasks for a week and sort by name, date and importance.
- Used Flask to implement user registration and included options to add, remove and edit tasks, and alert overdue tasks.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

### Personal Portfolio Website | ReactJS, NodeJS, ExpressJS, Bootstrap, CSS, Vercel

Jan 2021

- Created a personal portfolio website that features some Github projects, technical skills, resume and contact details.
- Implemented features like Github contribution graph, mobile responsivity, multi-page layout and navigation menu.
- Included an option to star the project repository and fork and customize the portfolio source code for personal use.

## Technical Skills

**Languages:** Python, C++, JavaScript, SQL, MATLAB, HTML/CSS, Bash

**Technologies/Frameworks:** ReactJS, NodeJS, Flask, Django, ExpressJS, REST API, Bootstrap, Linux

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

## Academic Achievements

- Secured 93.62 percentile in Common Admission Test (CAT) 2021 exam with 97.38 percentile in Verbal Ability.
- Secured 98.07 percentile in Joint Entrance Examination (JEE) 2018.
- Qualified Graduate Aptitude Test in Engineering (GATE) 2021.

## Certificates

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