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 (Computer Science) – 93.6%, 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 14 rural students achieve **application-based learning** through educational software.

TECHNICAL SKILLS

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

Libraries/Frameworks – ReactJS, NodeJS, ExpressJS, Flask, Numpy

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

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

PROJECTS

Online E-Commerce Shopping App | *View Live* | *Source Code*   **May 2022**
- Developed a **shopping app** using **React** where users can view and buy products, and **search**, **sort**, **filter** and add **reviews**.
- Verified sellers can sell and **modify product details** and can **view order history** and **transactions details** of the customers.
- Intergrated **Stripe API** using react-stripe-checkout module to implement payment system and used **Postman** for API testing.
- Used **Passport** library to implement user authentication with **MongoDB** for database and **Node** and **Express** for backend.

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.

Professional Resume Builder App | *View Live* | *Source Code*   **Feb 2022**
- Developed a **resume builder** app using **React** where users can enter details, choose from 2 templates and **print the pdf**.
- Implemented user authentication system using **Passport** library and **local-passport** to enable users to save their details.
- Feature to **preview the resume** in real time. UI components were desgined using **AntD** and fully **responsive web design**.
- Utilized **Node** and **Express** for backend, **MongoDB** for database management and **Heroku** for deployment of the website.

Eduserver Attendance Automation Bot | *Source Code*   **Oct 2021**
- Developed a bot using **Python** to **mark attendance** on Eduserver every day and **start the required online class** on time.
- Implemented **Selenium** to create an instance of Chrome to log in and **interact** with the correct elements of the webpage.
- Created a **scheduled task** using Task Scheduler to execute the program **automatically** at 7am everyday to mark attendance.
- Used by more than **40 students** to achieve **100% attendance** by adding their credentials and modifying the timetable file.

ACHIEVEMENTS

- Solved more than 400 problems across LeetCode, GeeksForGeeks and CodeForces.
- Secured 93.62 percentile in Common Admission Test (CAT) 2021.
- Secured 98.07 percentile in Joint Entrance Examination (JEE Main) 2018.

CERTIFICATES

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