Abdalhameed emad

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github.com/abdalhamedemad

Education

Cairo University **Sep. 2019 –present**
Bachelor of Science in Computer Engineering *Egypt, Giza*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

Experience

ITI **August 2022 – November 2020**
Embedded System Software Engineer Intern *Egypt, Giza*

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- I have completed a month and a half of hands-on experience working on multiple small-scale projects utilizing the AVR ATmega 32 microcontroller. Throughout this experience.
- I have gained extensive knowledge in developing and implementing various device drivers, including communication protocols, to ensure seamless and efficient operation of the system.
- I have completed a smart home project, The project is available for review on my GitHub repository.

Projects

Readit | *Vuejs, HTML, CSS,JS,Vitest* **abdalhamedemad/SW-Frontend-proj**

- I made significant contributions to the team project "Read-it," which aimed to replicate the popular website Reddit. Working collaboratively with a team of six members, I developed multiple front-end pages using the Vue.js library, along with HTML, CSS, and JSS..
- I ensured that the project was responsive, user-friendly, and featured beautiful animations, which enhanced the overall user experience. Additionally, I played a key role in creating comprehensive documentation, conducting unit testing, and working with a REST API to ensure seamless functionality of the project.

OS-Scheduler | *C, Linux* **abdalhamedemad/os-scheduler**

- Utilized an operating system scheduler and Memory Management that scheduled different processes using the Shortest Remaining Time Next (SRTN), Highest Priority First (HPF), and Round Robin algorithms.

Smart-Home | *C, Atmega 32* **abdalhamedemad/Smart-home**

- I successfully developed a smart home project that included two microcontrollers, a keypad, six 7-segment displays, an LCD, a servo motor, and an EEPROM.
- project was designed to monitor and control various aspects of the home environment, including temperature and prayer times. I integrated a temperature sensor into the system to sense the temperature and adjust the fan speed accordingly. Additionally, I developed an LCD display to show the prayer times and enabled users to set their preferred prayer times using a keypad. The prayer times were then saved in the EEPROM for future reference.etc.

Technical Skills

Languages: C/C++,Python, Java, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse
Databases: MySQL, MongoDB
Technologies/Frameworks: Vuejs , Nuxtjs , GitHub , Nodejs , Express js

Honors / Awards

ECPC Competition **Aug 2022**
Certification Link

Supervised Machine Learning: Regression and Classification **Certification Link**