



MUSTHAK AHAMED

COMPUTER ENGINEERING UNDERGRADUATE

CONTACT

+94764638778

musthakahamed741300@gmail.com

[Musthak Ahamed](#)

123/2, Karuvakeni Road,
Semmon Odai-07, Valaichenai.
30400, Batticaloa

EDUCATION

FACULTY OF ENGINEERING, UNIVERSITY OF PERADENIYA

BScEngHons specializing in Computer Engineering
(2022 - Present)

- CGPA : 3.60/4.00

AL HIDAYA M.V, MEERAVODAI

G.C.E Advanced Level
(2016 - 2018)

- 2As and 1B

G.C.E Ordinary Level
(Jan, 2015 - Dec 2015)

- 8As and 1B

LINKS

[musthakk](#)

[portfolio](#)

[musthakahamed741](#)

LANGUAGES

English - Professional proficiency

Tamil - Native proficiency

Sinhala - Professional proficiency

PROFILE SUMMARY

As a 3rd year computer engineering undergraduate, I'm enthusiastic about securing an internship opportunity. I aim to collaborate effectively with a team of skilled software engineers, thereby enhancing my practical knowledge and expertise in this field. My goal is to apply my existing skills to make a significant contribution to your company while deepening my understanding of this profession.

PROJECTS

School Van Tracking System - Group

Oct 2023 - Jan 2024

ReactJS, ReactNative, Node.js, Express.js, MongoDB, AWS EC2 and IoT Core

- This IoT device ensures student safety while transportation with real-time GPS tracking, speed monitoring, and accident alerts for parents and administrators.
- Contribution: Developed a Mobile Application for parents and drivers, enhancing communication and safety in student transportation, Deployed the application back-end on an Amazon Web Services Elastic Compute Cloud (AWS EC2) instance.
- Project code and documentation can be found [here](#)

Remote Controlled PLC Training Kit - Group

Aug 2023 - Sep 2023

Arduino, NodeRED, HTML, Bootstrap5, Python

- An Arduino-based system with a web Dashboard to provide inputs remotely to the PLC training Kit.
- Contribution: Contributed to hardware setup development using Arduino and relays. Developed the Node-RED environment, and web dashboard, and established connections through socket programming.
- Project code and documentation can be found [here](#)

Student Result Management System - Group

Mar 2023 - July 2023

Java, Android Studio, Firebase

- A mobile application designed to facilitate the management and analysis of undergraduate students' marks. This application helps undergraduates to keep track of their academic performance, progress.
- Contribution: Implemented GPA calculation and Expected GPA calculation features.
- Project code and documentation can be found [here](#)

Library Management System - Group

Mar 2023 - July 2023

HTML5, CSS, Bootstrap5, PHP, MySQL

- A comprehensive library management system designed to streamline borrowing, and tracking of resources, enhancing efficiency and accessibility for both librarians and users.
- Contribution: Web application development
- Project code can be found [here](#)

CERTIFICATIONS

- [edX Verified Certificate for Data Structures & Algorithms Using C++](#)
- [Web Design for beginners By university of Moratuwa](#)
- [Programming for Everybody \(Getting Started with Python\) offered through Coursera](#)
- [Introduction to Linux](#)

TECHNICAL SKILLS

Programming languages:

- Java
- C, C++
- Python

Mobile App development:

- Java, Android Studio
- ReactNative
- Node.js, Express.js

Web development:

- HTML, CSS
- PHP in HTML
- JavaScript
- ReactJS, Node.js, Express.js

Databases:

- MySQL
- Firebase
- MongoDB

Version control:

- Git & GitHub

Cloud:

- AWS

Hardware Programming:

- Verilog HDL
- Arduino
- ARM

Tools:

- VS code
- IntelliJ IDEA
- Android Studio

8 bit Single Cycle Processor - Group

Mar 2023 - July 2023

Verilog HDL, ARM assembly

- Designed 8-bit ALU with a register file for memory using Verilog
- Simulated processor behavior using Icarus Verilog and input and output signals were observed using GTKWave
- Tested behavior using ARM assembly code.

ML for Online shoppers intention detection - Group

Present

Python, pandas, Scipy, Matplotlib

- Developing a predictive model utilizing browsing behavior and relevant features to forecast transaction outcomes on an e-commerce website. The primary aim is to predict whether a session on the website would result in a successful transaction, providing crucial insights into purchasing intentions.

MINI PROJECTS

School Registration System

- Developed a program in C++ using OOP concepts such as Abstraction, Encapsulation, Inheritance, and Polymorphic Behavior to model a robust registration system.
- Incorporated features like Overloading, Friendship, Static Members, Constructors, Pointers, and Functional Pointers within the application.

Network Application

- The network application developed is a chat application implemented in C++ under the OOP concepts, using TCP WinSock2 for communication between a client and a server running on a single machine.

COMPETITIONS

ACES Pre-Coders V10.0 (Group)

- 6 hours Inter university coding competition Organized by ACES
- Qualified to the ACES Coders V10.0 with 19th position among 50+ teams

Venmurasu Programming Contest (Group) - 2023

- Qualified at the Online team qualifier contest among 21 teams. Qualified teams were provided with a 3 months project (during Oct 2023 - Dec 2023)

REFEREES

Prof. Roshan G. Ragel

Head of the Department,
Department of Computer Engineering,
Faculty of Engineering,
University of Peradeniya.

Email : roshanr@eng.pdn.ac.lk

Dr. Isuru Nawinne

Senior Lecturer,
Department of Computer Engineering,
Faculty of Engineering,
University of Peradeniya.

Email : isurunawinne@eng.pdn.ac.lk