

J.P.D.M. CHANDULA

☎ (+94) 778375430 | ✉ chandula12d@gmail.com | 📱 /Chandula-JPDM | 🌐 /chandulajpdm

Department of Computer Engineering, University of Peradeniya

Profile

- I am an enthusiastic, self-motivated, reliable, responsible, hard working person. I am able to work well both in a team environment as well as using own initiative. I am willing to acquire valuable experience by working in a reputed organization investing the best of my Engineering knowledge to serve the organization and the country.

Education

University of Peradeniya

2017 - Present

BSC. ENGINEERING (SPECIALIZE IN COMPUTER ENGINEERING)

- CGPA: 3.52/4.00

Ananda College, Colombo

2013-2016

G.C.E ADVANCED LEVEL EXAMINATION

- Z-score – 1.8850

Projects

Smart pill manager

2020 - present

GROUP PROJECT

- This project is about a device which we called a smart pill manager to help patients to get their medicine according to the given routine.
- **Contribution:** Developed the front-end and the back-end website and deployed to the cloud, Design the device architecture, Program the hardware components
- **Technologies:** MERN stack, JavaScript, AWS/Azure cloud, C++, EasyEDA
- **Github Repo**

Hospital Management System

2020

GROUP PROJECT

- This is a web application to help the hospitals to interact with their patients more efficiently.
- **Contribution:** Developed the front-end, back-end and database of the website.
- **Technologies:** HTML, CSS, MySQL
- **Github Repo**

Caliber

2019

GROUP PROJECT

- Caliber is a device to identify rotten tomatoes and separate rotten tomatoes from the good tomatoes
- **Contribution:** Developed the identification of the rotten tomatoes.
- **Technologies:** Python, MATLAB, OpenCV

8-bit CPU Implementation

2019

INDIVIDUAL PROJECT

- Implement a 8-bit ALU with memory management which support the instruction such as add, sub, and, or, j, beq, mov and loadi
- **Technologies:** Verilog HDL

Auction server

2019

GROUP PROJECT

- Implement a simple auction server using java that can be used by clients to bid for items in the stocks
- **Contribution:** Designed the UI, Socket programming
- **Technologies:** Java

Build an ALU

2018

GROUP PROJECT

- Developed a ALU which support add, sub, and, or operation using logic gates, adder etc. Input to the ALU is given using dip switches and output was indicated using Seven segment display
- **Contribution:** Design the logic circuit, Create a PCB using chemical etching process
- **Technologies:** Proteus software

Mini Projects

- **Fractals** Implement the Mandelbrot set using java 2020
- **Deep-Speed robot** Developed a line following robot 2018
- **Memory game** Developed a game to memorize the input sequence using arduino and matlab 2018

Skills

Programming languages	C, Python, Java, JavaScript, MATLAB
Application development	HTML, CSS, ReactJS, NodeJS, ExpressJS
Database	MySQL, MongoDB
Cloud computing	AWS, Azure
Procedural programming	ARM Assembly
Hardware programming	Arduino, Verilog HDL
Operating systems	Linux, Windows
Circuit Simulation and design	Proteus, EasyEDA
3D modeling	Fusion 360
Version Control	Git

Interests

- Cybersecurity
- Networking
- Travelling
- Music
- Football

Certificates and Courses

Introduction to Cybersecurity	2021
- ISSUED BY CISCO NETWORKING ACADEMY	
Microsoft Azure fundamentals	2021
- ISSUED BY MICROSOFT	

Teaching Experience

Volunteer Instructor(Teaching assistant)	2021- Present
DEPARTMENT OF COMPUTER ENGINEERING, UNIVERSITY OF PERADENIYA	
• CO323: Computer Communication Network	
Volunteer teacher(Arunalla project)	2019
AMPARA TAMPITIYA VIDYALAYA	
• Mathematics, Science, English for grade 10, 11	

Extracurricular Activity

• Member of ACES club University of peradeniya	2019- present
• Member of Rotaract club University of peradeniya	2019
• Member of Lumbini college cricket 'A' team	2012
• Member of Kangaroo swimming club, Wellawattha	2011
• Member of school chess team	2010-2011

Non-related References

• Dr. Asitha Bandaranayake Senior Lecturer Faculty of Engineering University of Peradeniya Email: asithab@pdn.ac.lk	Dr. Isuru Nawinne Senior Lecturer Faculty of Engineering University of Peradeniya Email: isurunawinne@pdn.ac.lk
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I do hereby declare that the given above are true and accurate reflection of my skills and experience to the best of my knowledge.