# J.P.D.M. **CHANDULA**

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*DEPARTMENT OF COMPUTER ENGINEERING, UNIVERSITY OF PERADENIYA*

## PROFILE

I am an enthusiastic, self-motivated, reliable, responsible, and hard-working person. I am able to work well both in a team environment as well as using my 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.

## WORK EXPERIENCE

### Software Engineer Intern at Network & Communication Service Unit, UOP

January 2022 - June 2022

- Involvement in three major projects. (University Personal Website Development, Server analyzer application, Network management)
- Designed web application using Figma and use MVC architecture to develop the web application.
- Worked with the project supervisor, technical officers, and a team of four developers.
- Worked with docker containers, Microsoft active directory, and GitHub version control.

## EDUCATION

### University of Peradeniya

BSc. Engineering (Specialize in Computer Engineering)

2017 - *Present*

**CGPA : 3.52/4.00**

### Ananda College, Colombo

G.C.E. Advanced Level Examination

2013 - 2016

**Z- Score : 1.8850**

## INTERESTS

- Cybersecurity
- Web development
- Networking
- Music
- Football

## SKILLS

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|---|---|
| Programming Languages | C, Python, Java, JavaScript, MATLAB |
| Application Development | HTML, CSS, ReactJS, NodeJS, Laravel |
| Database | MySQL, MongoDB |
| Cloud Computing | AWS, Azure |
| Operating Systems | Linux, Windows |
| Hardware Programming | Arduino, Verilog HDL |
| Circuit Simulation & Design | Proteus, EasyEDA |
| Version Control | Git |

## CERTIFICATIONS

**Introduction to Cybersecurity**
Issued by Cisco Networking Academy
2021

**Microsoft Azure Fundamentals**
Issued by Microsoft
2021

**Software Analysis and Testing**
Issued by Udacity
2022

# PROJECTS

### Configurable ECU Emulator for Digital Twins in Car Manufacturing Industry
**July 2022 - Present**

Group Project

- This is our final year research project and here we are trying to build a performance enhance ECU emulator.
- **Technologies :** C++, Computer Architecture
- **GitHub Repo**

### Smart Pill Manager
**2020 - 2021**

Group Project

- This project is about a device that 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 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
**2020**

Group Project

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

### 8-bit CPU Implementation
**2019**

Individual Project

- Implement an 8-bit ALU with memory management that support 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

# TEACHING EXPERIENCE

**Volunteer Instructor(Teaching assistant)**
Department of Computer Engineering
2021

**Volunteer teacher(Arunalla project)**
Ampara Tampitiya Vidyalaya
2019

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# EXTRACURRICULAR ACTIVITIY

- Member of ACES club at the University of Peradeniya.
- Member of Rotaract club University of Peradeniya.
- Member of Lumbini college cricket 'A' team.
- Member of Kangaroo swimming club, Wellawattha.
- Member of the school chess team.

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# NON-RELATED REFERENCES

**Dr. Asitha Bandaranayake**
Senior Lecturer
Faculty of Engineering
University of Peradeniya
Email To: asithab@pdn.ac.lk

**Dr. Isuru Nawinne**
Senior Lecturer
Faculty of Engineering
University of Peradeniya
Email To: isurunawinne@pdn.ac.lk

*I do hereby declare that the given above are true and accurate reflection of my skills and experience to the best of my knowledge.*