Damsy De Silva

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https://github.com/DamsyDeSilva

EDUCATION

BSc Engineering (Hons) | Faculty of Engineering | University of Peradeniya, Sri Lanka

2017 Nov – Present

Current GPA	: 3.65 / 4.00
Specialization	: Computer Engineering
Relevant Coursework	: Computer Architecture, Embedded Systems, Software Construction, Computer Networking, Computer and Network Security, Database Management, Data Structures & Algorithms, Discrete Mathematics, Numerical Mathematics, Electronics

Prajapathi Gothami Girls' College | Ambalangoda

2003 – 2016

GCE A/L (2016)	: A – Combined Mathematics A – Chemistry B – Physics
	District Rank : 94 National Rank : 1122 Z-Score : 1.8444
GCE O/L (2013)	: 8 A passes & B pass

SKILL HIGHLIGHTS

Programming Languages	Java, C, C++, Python
Procedural Programming	ARM Assembly
Hardware Programming	Arduino C, Verilog HDL
Mobile Programming	Flutter, Dart
Web Developing	HTML, CSS, JavaScript
Database Systems	MySQL
Version Control	Git
Languages	English, Sinhalese

PROJECTS

Project chessMATE | Smart Chess Platform

Developing an electronically powered chessboard and mobile app so that worldwide chess players can connect and play on the actual chessboard.

Technologies	: ESP32 development board, Hall-effect Sensors, C++, Flutter-Dart, MySQL, nodejs, AWS
Techniques	: Multiplexing Algorithms, Bluetooth-Serial Communication, Web-Socket Programming, Sensor Calibration

Processor Implementation

Implemented a processor which includes ALU, a Register File, Control Logic, Data Memory, Data Cache, Instruction Memory & Instruction Cache.

Technologies	: Verilog HDL
Techniques	: Computer Architecture, Harvard Architecture Implementation

Library Management System | Group Project

Web application with Database for Library Management System for an educational institute in order to make library management more efficient and easy to handle.

Technologies   : MySQL, HTML, CSS, PHP
Contribution   : Database Modelling, Front-End Developing

Auction Server

A Server which can be used by clients to bid for items in a sample stock exchange.

Technologies   : JAVA
Techniques   : Multi-threading, Synchronization primitives, Socket Programming, OOP

Fractal Visualization

Software that Visualize the Mandelbrot and Julia Fractal sets according to the user inputs.

Technologies   : JAVA
Techniques   : Multi-threading

Project You See World | Smart Guidance System for Blind | Group Project

Developed an electronically powered blind stick that detects near obstacles and vibration belt to notify the blind person. And a mobile app for assistance with voice controlling.

Technologies   : Arduino Microcontroller, Ultrasonic Sensors, Raspberry Pi
Techniques   : Sensor Calibration, Bluetooth Communication

Other Hobby/Course Projects

- Analog Line Follower Robot (Technologies: OP-AMPs)
- Obstacle Avoidance Robot (Technologies: Arduino Microcontroller, Ultrasonic Sensors)
- Mini Radar Project (Technologies: Arduino Microcontroller, Ultrasonic Sensors, Servo Motors)

CERTIFICATIONS

Cisco Certified Network Associate (CCNA) | Currently Following

Google IT Automation with Python Professional Certificate | COURSERA

- Course 1 : Crash Course on Python
- Course 2 : Using Python to Interact with the Operating System
- Course 3 : Introduction to Git and GitHub

AWS Fundamentals: Going Cloud-Native | Amazon Web Services | COURSERA

Cryptography and Information Theory | University of Colorado | COURSERA

Deep Learning Specialization | deeplearning.ai | COURSERA

- Course 1 : Neural Networks and Deep Learning
- Course 2 : Improving Deep Neural Networks

Diploma in Information Technology | ESOFT METRO CAMPUS

Certificate in Java Programming with Software Application Development | ESOFT METRO CAMPU

COMPETITIONS

Arimac Future Cast Ideathon 2021 | IoT Category | Finalist
   Project: Project chessMATE (Smart Chess Platform)

HackStat 2.0 2019 | Organized by Stat Circle, University of Colombo | 2nd Runners-up
   Task: Give a prediction model on Insurance based dataset

DATATHON | SLIIT CODEFEST 2019 | Merit Award
   Task: Give a prediction model on dataset which based on Online Shoppers Purchasing

IEEE SS12 ASIA 2018 | Innovative Pilot Competition, University of Peradeniya | Runners-up
   Project: Project You See world (Smart Guidance System for Blind)

IEEE Region 10 Humanitarian Technology Conference 2018 Community Outreach Project | Humanitarian Technology Product Competition | Runners-up
   Project: Project You See world (Smart Guidance System for Blind)

LEADERSHIP AND AWARDS

Most Outstanding Student Award | Post A/L School Prize Giving | 2017

Deputy Head Prefect | Prajapathi Gothami Girls' College, Ambalangoda | 2016

EXTRACURRICULAR ACTIVITIES

School Math Quiz Team | Team Member | 2008 - 2015
Have participated & won multiple Inter-School Quiz Competitions since 2008

School Chess Team | Captain: U-16, U-14 | Team Member | 2005 – 2015
Have participated & won multiple All-Island Chess Championships since 2006

School Badminton Team | Team Member | 2004 - 2014

Music Society | University of Peradeniya | Member | 2018 – Present

REFERENCES

Prof. Roshan Ragel
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