

Damsy De Silva

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

A 3rd-year computer engineering undergraduate with having strong fundamentals in Computer Engineering and over two years of development experience. A quick learner with strong interests in Hardware Programming, Web & Software Development and Artificial Intelligence, and a passion for work on Computer Engineering Researches. Currently seeking new opportunities as an internship trainee on research internships or in the IT industry.

EDUCATION

BSc Engineering (Hons) | Faculty of Engineering | University of Peradeniya, Sri Lanka 2017 Nov – Present

Current GPA : 3.70 / 4.00
Specialization : Computer Engineering
Relevant Coursework : Computer Architecture, Embedded Systems, Software Construction, Computer and Network Security, Database Management, Data Structures & Algorithms, Discrete Mathematics, Numerical Mathematics

SPARK X Computer Engineering Professional Development Program | Spark Academy, Sri Lanka 2021 Mar - Present

An industry readiness Soft Skills and Technical Skills development program covering modules Developing and Deploying real-world applications, Creative problem solving, Communication, Leadership, Professionalism and Ethics. Received a Full-Scholarship.

Prajapathi Gothami Girls' College | Ambalangoda, Sri Lanka 2003 – 2016

GCE Advanced Level Examination (2016) : Combined Mathematics: (A), Chemistry: (A), Physics: (B)
National Rank : 1122 Z-Score : 1.8444

SKILL HIGHLIGHTS

Programming Languages	Java, C, C++, Python, MATLAB	Database Systems	MySQL
Mobile Programming	Flutter, Dart	Procedural Programming	ARM Assembly
Web Developing	HTML, CSS, JavaScript, ReactJS	Hardware Programming	Arduino C, Verilog HDL

PROJECTS [\(View on GitHub\)](#)

Project chessMATE | Smart Chess Platform | Group Project 2020 - 2021

Developed an IoT chess Platform which contains an electronically powered chessboard and mobile app so that worldwide distant chess players can connect and play on the actual chessboards. Live Streaming Games, View Live Games, and providing chess Tutorials are additional features of the system.

Technologies : Flutter-Dart, MySQL, NodeJS, AWS, C++, Autodesk Fusion360, ESP32
Techniques : Multiplexing Algorithms, Bluetooth-Serial, Web-Socket Programming, Embedded Systems
Contribution : Mobile App Development, Back-End Development, Hardware Programming, AWS Cloud Deployment

National COVID Management System | Individual project Ongoing

Developing a Web Application to be used to efficiently manage patients having COVID-19 symptoms with bed reservation and queue controlling mechanism and to provide country, district, and hospital level patient statistics.

Technologies : Java, ReactJS, MySQL, Maven

Crossword Puzzle Game | Group Project 2021

Developed a Facebook instant game for children so that they can select and solve set of educational crossword puzzles.

Technologies : ReactJS

Library Management System | Group Project 2020

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

CPU Implementation | Individual Project 2020

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

Auction Server	2019
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
Project You See World Smart Guidance System for Visually Impaired Persons Group Project	2018-2019
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, Raspberry Pi, Ultrasonic Sensors

EXPERIENCE

Casual Instructor (Teaching Assistant) Department of Computer Engineering University of Peradeniya	2021 - Present
CO321 : Embedded Systems for 3 rd year computer Engineering Undergraduates	

COMPETITIONS & AWARDS

Arimac Future Cast Ideathon 2021 IoT Category Finalist (Over 50+ Teams with 150+ Participants)	2021
Project : Project chessMATE (Smart Chess Platform)	
HackStat 2.0 2019 Organized by Stat Circle, University of Colombo 2nd Runners-up (Over 50+ Teams)	2019
Task : Give a prediction model on Insurance based dataset	
DATATHON SLIIT CODEFEST Merit Award at Finals (Over 100+ Teams)	2019
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	2018
Project : Project You See world (Smart Guidance System for Visually Impaired Persons)	
IEEE Region 10 Humanitarian Technology Conference 2018 Community Outreach Project Humanitarian Technology Product Competition Runners-up	2018
Project : Project You See world (Smart Guidance System for Visually Impaired Persons)	
Most Outstanding Student Award Post A/L School Prize Giving	2017

CERTIFICATIONS

Cisco Certified Network Associate (CCNA v7) SLIIT Kandy Sri Lanka	2019 - Present
Google IT Automation with Python Professional Certificate COURSERA	2021
AWS Fundamentals: Going Cloud-Native Amazon Web Services COURSERA	2020
Neural Networks and Deep Learning deeplearning.ai COURSERA	2020
Diploma in Information Technology ESOF METRO CAMPUS Sri Lanka	2017

EXTRACURRICULAR ACTIVITIES

Deputy Head Prefect Prajapathi Gothami Girls' College, Ambalangoda, Sri Lanka	2016
School Chess Team Captain: U-16, U-14 Team Member	2005 – 2015
Have won multiple National Chess Championships since 2006	
School Badminton Team Team Member	2004 - 2014
Have won badminton Championships since 2004	
School Math Quiz Team Team Member	2008 - 2015
Have won multiple Inter-School Quiz Competitions since 2008	

REFERENCES

Prof. Roshan Ragel
Professor - Department of Computer Engineering
University of Peradeniya, Sri Lanka
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Dr. Isuru Nawinne
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