Damsy De Silva

Malabe, Sri Lanka
+94 76 317 8088 | damsydesilva@gmail.com
GitHub | LinkedIn | Portfolio

A 3rd-year computer engineering undergraduate with having strong fundamentals in Software Engineering and over two years of development experience in Java. A quick learner with a strong interest in Web Development, Hardware Programming, and Artificial Intelligence, and a passion for work on practical projects and researches. Currently seeking new opportunities as an internship trainee on research internships or in the tech 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 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)	:	Combined Mathematics: (A)	Chemistry: (A)	Physics: (B)
		District Rank : 94	National Rank : 1122	Z-Score : 1.8444

SKILL HIGHLIGHTS

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

PROJECTS (View on GitHub)

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

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

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

Processor 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

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

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, Ultrasonic Sensors, Raspberry Pi

EXPERIENCE

Casual Instructor (Teaching Assistant) | Department of Computer Engineering | University of Peradeniya | 2021 - Present
   Involving in Lab Evaluations and Mentoring for the Subject CO321 – Embedded Systems

CERTIFICATIONS

Cisco Certified Network Associate (CCNA) | SLIIT Kandy | Sri Lanka   2019 - Present

Google IT Automation with Python Professional Certificate | COURSERA   2020 - Present

AWS Fundamentals: Going Cloud-Native | Amazon Web Services | COURSERA   2020

Neural Networks and Deep Learning | deeplearning.ai | COURSERA   2020

Diploma in Information Technology | ESOFT METRO CAMPUS | Sri Lanka   2017

AWARDS

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

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

DATATHON | SLIIT CODEFEST   **Merit Award | 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

EXTRACURRICULAR ACTIVITIES

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

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
   Have participated & won badminton Championships since 2004

REFERENCES

Prof. Roshan Ragel   Dr. Isuru Nawinne
Professor   Senior Lecturer
Department of Computer Engineering   Department of Computer Engineering
University of Peradeniya   University of Peradeniya
Sri Lanka   Sri Lanka
[roshanr@eng.pdn.ac.lk]   [isurunawinne@eng.pdn.ac.lk]