K. D. SUNERA AVINASH CHANDRASIRI

344/1, Moonamalgahawatta, Duwa Temple Road, Kalutara South.
(076) 833 6850 ⋄ suneraavinash.17@cse.mrt.ac.lk
https://kdsuneraavinash.me

PROFILE

A third-year computer science undergraduate who has a passion for algorithms and problem-solving. I am also interested in web technologies and mobile app development. A GNU/Linux Enthusiast.

🌐 Portfolio: https://kdsuneraavinash.me
 Github profile: https://github.com/kdsuneraavinash
in LinkedIn profile: https://www.linkedin.com/in/kdsuneraavinash

EDUCATION

University of Moratuwa	*September 2017 - Present*
Undergraduate, Bsc (Computer Science and Engineering)	Current SGPA: 4.08/4.2
Dean's List - Semester 1, 2, 3	

Kalutara Vidyalaya – National School	*July 2013 - June 2017*
GCE Advanced Level Examination	Z-Score: 2.680
All A Passes in Physical Sciences stream (Island rank 76th, District Rank 2nd)	

Building Cloud Services with the Java Spring Framework	*Coursera*
Building Scalable Java Microservices with Spring Boot and Spring Cloud	*Coursera*
RESTful API with HTTP and JavaScript	*Coursera*
Networking Essentials Course	*Cisco*
Introduction to Packet Tracer	*Cisco*

TECHNICAL STRENGTHS

Programming Languages	Java, Python, Dart, JavaScript, Golang, C++, PHP
Frameworks & Technologies	Flutter, React, Express, Arduino, OpenCV
Web Development	HTML5, CSS, Bootstrap, WordPress
Databases	PostgreSql, MySql, Firebase Firestore

COMPETITION AWARDS

IEEExtreme 12.0 & 13.0 (IEEE) — Top 100 (global) *October 2018 & 2019*
A 24-hour international competitive programming competition organized by IEEE and attended by more than 4000 teams.

ACES Coders v8.0 (University of Peradeniya) — Winners *February 2020*
A 12-hour competitive programming competition organized by the Association of Computer Engineering Students of the Department of Computer Engineering, the University of Peradeniya.

HackX 2019 (University of Kelaniya) — Winners *September 2019*
An innovative startup challenge conducted by the Management and IT faculty of the University of Kelaniya in which our team developed an Android/iOS mobile app named 'Teleport' to facilitate ride-sharing for parcel delivery.

14th YCS Competition (Ministry of Education & FITIS) — Winner *August 2015*
An island-wide software development competition organized by the Ministry of Education in which my solution was a learning management system designed to teach students who have negligible knowledge about mathematics.

XOBot '19 (IESL & University of Jaffna) — Runners Up *October 2019*

A robotic manipulator design competition conducted as part of the Techno exhibition '19 in which the task was to design a Tic-Tac-Toe playing robotic arm.

UOJ Coders v1.0 (University of Jaffna) — Winners *March 2019*
IESL RoboGames '18 (IESL & University of Moratuwa) — Winners *October 2018*
IDEA Challenge (University of Moratuwa) — Runners Up *October 2018*
Reakhack 2.0 (University of Kelaniya) — Runners Up *November 2019*
SLRC '17 (University of Moratuwa) — Second Runners Up *January 2018*
Hash Code 2019 (Google) — Sri Lankan First Place & 260th globally *February 2019*

HONOURS & AWARDS (OTHER)

Hiran Chathura Kulasekara Throphy *2016*

Award for best performing student in Physical Science Stream, Kalutara Vidyalaya - National School.

National School Software Championship (Ministry of Education) — Merit *2015*
ICT Competition (Ministry of Education) — Western Province 1st place *2013*
Science Competition (Ministry of Education) — Western Province 2nd place *2010*
Social Science Competition (Ministry of Education) — All Island 5th place *2010*

PROJECTS

Theme Provider — Open source plugin *June 2019*

https://pub.dev/packages/theme_provider

A dependency injection plugin written in *Dart (for Flutter)* to automatically rebuild UI on theme changes. This package attempts to reduce boilerplate code when adding theme switching functionality to flutter while providing theme persistency and support for dark themes out of the box.

Googong Smart city Community app *April 2020 - Ongoing*

https://play.google.com/store/apps/details?id=au.com.onewifi.googongIotApp

A smart city app which allows users to find local community services, receive public announcements of events and upload public amenity faults supported by the smart city network in Googong, Australia. This was a cross-platform mobile application and a web application developed using *Django and Flutter*.

CB3D Website — 3D Printing Portal *May 2020 - August 2020*

https://cb3d.circuitbreakerssl.com

3D printer website and administration portal with online order management and 3D file preview functionalities. *Node.js, Express.js, React and PostgreSql* were used to develop the system.

Rise of the Pharaohs Scavenger hunt app *October 2019 - February 2020*

https://github.com/kdsuneraavinash/cse-night-app

Scavenger-hunt mobile app developed using *Flutter and Firebase* which was created as the invitation for the CSE event – Rise of the Pharaohs.

Tic-Tac-Toe Playing Robot Arm — Mobile app integrated robot *October 2019*

https://youtu.be/7ki3itajGDc

This was a vision-based approach to developing a tic-tac-toe playing robot using *Arduino, Android, and OpenCV*. The robot operates via the help of an attached mobile phone which identifies the board configuration and calculates the next move by applying the minimax algorithm.

OIS, Inventory Management System — 5th Semester Project *February 2020 - June 2020*

https://github.com/openinventoryorg

Automated inventory management system for computer labs with role-based access system. The system consisted of a mobile application and a web application. The web frontend was developed using *React*, Backend using *Node.js/Express* and mobile application using *Flutter*.

Java based RPAL Interpreter *June 2020*

https://github.com/kdsuneraavinash/rpal-ast-interpreter

Interpreter implemented in Java which evaluates abstract syntax trees according to the RPAL language grammar specification. Developed as part of the CS3152 Programming Languages module.