

# KESIHAIN SELVARAJOO

FULL STACK DEVELOPER & MECHANICAL ENGINEER

## SKILLS

HTML/CSS  
Javascript  
React  
React-Native  
Python  
SQL  
PostgreSQL  
Python  
Flask  
Git  
Design tools  
Solid Works (CSWA Certified)  
Ansys (FEA & CFD)  
Mathematica  
Matlab

## EXTRA CURRICULARS

FA Selangor League 19/20  
The Pit League 2018 Champion  
Shell Eco Marathon 2017  
Monash Cup Futsal Champion 5X  
Monah Futsal League 2019 3rd  
Monash Futsal League 2018 1st  
Monash Futsal League 2017 2nd  
Warman 2016 2nd

## CONTACT

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[www.linkedin.com/in/kesihain](https://www.linkedin.com/in/kesihain)

## PROFILE

Highly motivated and self driven individual who has the ability to work with other individuals to think critically in high pressure situations and form unique yet simple solutions

## WORK EXPERIENCE

### ENGINEERING INTERN

HSS Engineers Bhd. | Nov 2017-Feb 2018

- Simulated water supply system for several projects
- Wrote documentation for HVAC systems based on standard guidelines
- Reviewed documentation and drawings for several Railway projects

### ENGINEERING TECHNICIAN

Industrial Machine Cutters| Feb 2019 - Jun 2019

- Acted as primary technician and handled production of industrial knives
- Modified production rig to suit production of specific knives
- Designed and built coolant system as well as waste management system

## QUALIFICATIONS

### FULL STACK SOFTWARE DEVELOPER

Next Academy | Jun 2020-Sep 2020

- Developed 4 major projects including a mobile application developed with react as portfolio project

### BACHELOR OF MECHANICAL ENGINEERING (HONOURS)

Monash University | Jul 2014-Nov 2019

- Completed 192 credit hours inclusive of several engineering projects and 1 final year project

### MATRIKULASI

Kolej Matrikulasi Perak | Jun 2012-Apr 2013

- Achieved an average CGPA of 4.0

### SIJIL PELAJARAN MALAYSIA

Sekolah Menengah Kebangsaan Ibrahim | Jan 2007-Dec 2011

- Achieved 7A+ 1A 1A- 1B in SPM

## EVENTS ORGANIZED

Monash Grand Prix 2017  
Monash Open Futsal  
Tournament 2017  
Monash Womens Futsal  
Tournament 2017  
Ansys FEA Workshop 2017  
Manufacturing Workshop 2017  
Monash Futsal League 2017  
Monash Race 2016

## CHARITY

Covid 19 Charity Drive 2020  
(Lions Club of Kuala Muda)  
Kulim Orphanage Charity  
Drive 2019 (Lions Club of  
Kuala Muda)

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## PORTFOLIO PROJECTS

### MEMORI

Mobile app developed with a flask back end server and react-native. It serves to remind the user of simple day-to-day forgettable items and tasks. The app is expo dependant. Functionalities like expo-notification, geolocation and geocoding are used from expo.

### REACT-NEXTAGRAM

This single page web application is an instagram clone dependant on react. It includes features like image upload, profile viewing as well as commenting and liking pictures.

### FLASK-NEXTAGRAM

This app is a server side rendered instagram clone with api end points to allow integration with a front end app. Features include, Image upload, profile viewing as well as donating to and commenting on images

## POSITIONS HELD

### PRESIDENT

Motorsport Team Monash| Nov 2016-Nov 2018

- Responsible for managing overall performance of the club, from forming partnerships with other motorsport associations to the finance of the club.
- Responsible for conducting regular, non-profit field relevant workshops and training to members. (eg. Computer aided design and manufacturing workshops)
- Facilitates student participation in motorsport events

### VICE-PRESIDENT

Monash Futsal Club| Nov 2016-Nov 2017

- Responsible for finance , networking with potential sponsors and marketing .
- Responsible for organizing a few varsity level events .

### TEAM MANAGER/CO-FOUNDER

Monash Motorsport Malaysia| Jun 2017-2018

- Formula Student or Formula Society of Automotive Engineering is a racecar building competition which takes place all across the globe .
- Supervise design , materials and parts procurement as well as manufacturing carried out by all departments .
- Delegate tasks and construct timeline of design , manufacturing processess testing and driver training

### HEAD OF DEPARTMENT (BODY AND CHASSIS)

Shell Eco Marathon Asia (Urban Concept)| Oct 2016- Apr 2017

- Design and build a lightweight chassis and body for an urban concept car in order to comply with all rules
- Consider environmental impact of all aspects of the car from materials used up to waste disposal .