



Hishan Indrajith

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## ABOUT ME

I'm an enthusiastic and energetic computer engineering undergraduate, with a logical mind with a practical approach to problem-solving and a drive to see things through to completion. Being a self-learner, I am eager to be challenged in order to grow and further improve my IT skills.

## SKILLS

### WORK

JAVA, OOP, Python, C, JavaScript, MySQL, PHP, HTML5, CSS3, JavaScript, Firebase, Bootstrap, Android Studio, Git, Angular, Docker

### PERSONAL

Professional Fluency in English  
Communication,  
Creativity,  
Self-Learning,  
Hard Working.

# HISHAN INDRAJITH

Computer Engineering Undergraduate

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Interested in Full stack Development, Mathematics and Problem Solving. A Self-Learner

## EDUCATION

**Undergraduate BSc(Hons) in Computer Engineering (2016 – present)**

**University of Peradeniya** GPA up to 7<sup>th</sup> semester – 3.2/4.0

**Professional Certificate in Java Development (2014 – 2015)**

**DREAMTEAM Academy of ICT & Design**

**GCE A/L (Mathematics Stream) and O/L (2006 – 2014)**

**Central College Kuliapitiya**

## WORKING EXPERIENCE

**CodeGen International (Pvt) Ltd - Trainee Software Engineer**

*Feb 2019 – July 2019*

I worked in Research and Development team and did few projects in web crawling and used java language and technologies such as Spring Boot, MySQL, jsoup, and Angular.

## PROJECTS

**Automation of Intelligence Preparation of the Battlefield**

*Group Project (Final Year Research Project)*

**Python, Flask, Algorithm Development, JavaScript, Web Application Development**

This is the research and development of a decision support tool for military applications to automate intelligence preparation of battlefield (IPB). Under the project as milestones we developed a web-based platform to display overlays on a map and an infrastructure to efficiently store data for overlays and then integrated the data with web based tool through a REST API. Also we developed a grid based model to obtain combined obstacle overlay from overlay data and developed algorithms to generate potential mobility corridors in the terrain between two locations and do risk analysis for the corridors.

**My Contribution** – Developing the backend and IPB algorithms, Frontend Improvement

*Details: - [hishan.me/ipb.html](https://hishan.me/ipb.html)*

**Networked and Automated Weather Monitoring and Alerting System**

*Group Project*

**PHP, HTML, Arduino**

System to monitor weather information using an embedded system with a complete web application with live maps, charts and a live notification system about extreme weather

**My Contribution** – Web application and the program for the embedded system.

*Details: - [hishan.me/weather.html](https://hishan.me/weather.html)*

**Development of Dog counting and locating App for Dog population control**

*Group Project*

**Java, PHP, Android, Agile Method**

Mobile Application and an admin system for department of veterinary clinical science, University of Peradeniya that can be used for recording dogs with location information.

**My Contribution** – Design and development of android application and the PHP server.

*Details: - [hishan.me/dogapp.html](https://hishan.me/dogapp.html)*

### **APPC PERA - Automatic Professional Portrait Creator**

*Group Project*

**Python, Image processing and computer vision using OpenCV**

Automated photo processing tool for Faculty of Engineering, University of Peradeniya to overcome the difficulty of bulk manual processing to required format of the faculty.

**My Contribution** – Face position identification and processing

*Details:* - [hishan.me/portrait-creator.html](http://hishan.me/portrait-creator.html)

### **Pera EMS - Electronic Medical System for University of Peradeniya**

*Group Project*

**PHP, HTML, MySQL, Java, OOP**

Computerized System for University Health Center of University of Peradeniya.

**My Contribution** – Design and development of the backend and frontend program.

*Details:* - [hishan.me/peraems.html](http://hishan.me/peraems.html)

### **Python and OpenCV Based implementation to detect arrow directions**

*Individual Project*

**Python, OpenCV**

Computer vision based algorithm was implemented to get the angle that the robot should rotate in order to follow the junction accurately for IESL robo games competition 2018.

*Details:* - [hishan.me/opencv.html](http://hishan.me/opencv.html)

### **Multithreaded Auction System for Stock Exchange Using Java Sockets**

*Individual Project*

**Java, OOP**

It is an auction server with a GUI that multiple clients can connect and bid for stock items using Linux nc client.

*Details:* - [hishan.me/auctionsystem.html](http://hishan.me/auctionsystem.html)

### **IServant**

*Individual Project*

**Android, Firebase**

Android app with a map where users can search and get information about nearest domestic jobs (Maintenance, Cleaning etc.) to earn some money. It was a project did for CodeZilla Hackathon organized by Uwa Wellassa University.

*Details:* - [hishan.me/iservant.html](http://hishan.me/iservant.html)

## **EXTRA CURRICULAR ACTIVITIES**

Worked as Junior Treasurer of ACES - Association of Computer Engineering Students - University of Peradeniya Oct 2017 – Feb 2019

Contributed to Arunella School Welfare Project as a Mathematics teacher in 2017

Participated ACES Hackathon 2017, ACES Hackathon 2018 and ACES Coders 2018

Participated Codezilla 2018 Open Source Hackathon organized by Uwa Wellassa University.

Adding Technology videos to YouTube as hobby

## **ACHIEVEMENTS**

2nd Place of Second Round of CODE-CONQUEST 2019 organized by 99x Technology.

3rd place at All-Island MATHQUIZ 2013 organized by SLASS – Sri Lanka Association for the Advancement of Science in District School Science Day Program.

All Island 10th place ACES Coders v7.0 over 120 island wide teams

## **REFEREES**

Dr. Isuru Nawinne  
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