

CHATHURA WIDANAGE

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A responsible, adaptable and hardworking individual who loves to learn through experience. Looking forward for an opportunity to widen experience and knowledge while contributing to the advancing "Sri Lankan software" brand.

EDUCATION

2012 - Current University of Moratuwa

2012 Oracle University

2006 - 2011

Maliyadeva
College

BSc Eng. Hons

Specialized in Computer Science & Engineering

GPA: 3.851/4.2

OCPJP

Oracle Certified Professional Java Programmer

G.C.E. A/L

Physical Science Stream

3As

District Rank 8 | Island Rank 135

ACHIEVEMENTS

Google Summer of Code 2016

DHIS2 - Developed longitudinal analysis module for tracker capture.

Commonwealth Medical Association 24th Triennial Conference - DHIS2 Workshop

Presented about custom web application development on DHIS2 platform.

AngelHack Colombo '16

1st Runner Up

Developed an open source disaster response system

Augmented Human Conference

Top 10

2016 Geneva – Student Design Competition "Sense" wearable device which connects people

Morahack 2.0

1st Runner Up

Developed a wearable tracker for elderly people

IEEEXtreme 9.0

6th Local | 153rd Global

ExtremeCS 1.0

Winners

Algorithmic Challenge Organized by ACM Student Chapter

ACES Coders V5.0

1st Runner Up

Algorithmic Challenge Organized by University of Peradeniya

Google I/O Extended Hackathon

Best user friendly application award for wearable device "Sense"

Fugosticka 2.0

2nd Runner Up

Mobile game development competition organized by AIESEC. Developed the mobile game "Gravitron Quest"

EXPERIENCE -

2016 Apr - Current Health Informatics

Society of SL

2015 Oct – 2016 Apr **Adroitlogic**

2014 - Current **Fiverr**

2016 Oct - Current **UoM**

2011 – 2012 Thineth Software Solutions

Software Developer

Part Time

Developing data analysis software, conducting workshops to train end users.

Trainee Software Engineer

Contributed to IPS - Project which brings ESB to the cloud(PaaS).

Freelance Developer

Android, Java and web application development.

100% ratings | 200+ reviews.

Visiting Instructor

Mentoring and evaluating project groups of Database Management Systems Module (CS3042)

Java Developer

Developed business solutions based on client requirements.

C TECHNICAL SKILLS



Epic Code6th in Sri Lanka
Global Algorithmic Challenge hosted in hackarrank

Ideamart Code Ultimum

Winners

Developed a location based social network

IEEEXtreme 8.0 22nd Local | 224th Global

District Nutrition Monitoring System





Application to monitor nutrition status of children at district level. MOH doctors, sisters and midwives are the end users of this application. Currently implemented in 3 districts.

[Angular JS, HTML, CSS, ForerunnerDB, Java, Spring, Hibernate]

Tracker Longitudinal Charts - DHIS2



GSoC project done with District Health Information Systems. This adds the capability of creating and viewing longitudinal charts of tracked entity instances of DHIS2 open source software.

[Java, Spring, Maven, Hibernate, Angular JS, HTML, CSS]

Helium - Final Year Project



Reverse engineering image processing algorithms, optimize algorithms using DSLs, patch original binaries with optimized

[Halide, C++, Dynamorio]

"Suraksha", open source disaster response platform



Platform is capable of managing disaster response centers, communicate their needs with public. People can use this platform to donate and help disaster response centers, lookup people in the disaster response centers by using facial recognition technologies.

[Java, MySQL, Spring, Hibernate, Angular JS, Computer Vision]

"Seeds", the location based social network



Can be accessed by feature phones via SMS or USSD. User can plant a seed (≈tweet) at a location and anyone who is within 5km can read those seeds. Users can water (≈like) seeds planted by others. Seeds won't survive if not watered adequately.

[Dialog Ideamart APIs, PHP, MySQL, Linux]

"Sense" The smart band which connects you



Sense is a WiFi enabled wearable hand band which is always connected to the user's facebook account. Matches people based on their likes, interests and recent activities

[PHP, Android, Lua, Facebook API, ESP8266, NodeMCU, MySQL]

SMS based automated live score board and SMS based treasure hunt for CSE Outboundz event.

A SMS based platform where game coordinators can update the scores of the competed teams instantly. These scores will be real-time updated in a live scoreboard and teams will be ranked accordingly. Parallel to this system, an application was developed to handle the treasure hunt of the outboundz event via SMS.

[Dialog Ideamart APIs, Angular JS, PHP, MySQL, CSS]

"Gravitron Quest" a game which challenges the gravity



An android game where player have to use the concepts of gravity to move a spaceship without hitting the obstacles. [Android, libGdx Engine, Java]

⇔ REFERENCES

Dr. Chandana Gamage Senior Lecturer

University of Moratuwa, Department of Computer Science & Engineering chandag@cse.mrt.ac.lk

Dr. Roshan Hewapathirana (MBBS, MSc (IT), MIEEE)

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BearCare

Academic

Hyperlinked

P Award-wining projects

A web site which connects parents to clean and safe day cares. Day care owners can update their pages. Parents can find closest daycares by zip code. Service available only in USA. [PHP, Laravel, MySQL, Angular JS]

Non-Academic

"Spandha", a wearable health device

Available in GitHub (linked)



A wearable health device which can be used to keep track of the health of elderly people. Device is capable of monitoring heartbeat and body temperature continuously. Detects if person falls and sends a SMS alert to a pre-saved mobile phone. [Arduino, Java, MySQL, Ideamart APIs]

CSE Partner Network



Contributed to the initial phase of the platform which was built to connect CSE department with the industry.

[JQuery, PHP, CSS, MySQL]

Nigandu



A dictionary & herbs database for Sinhala Aurvedhic Medicine, where user can search the dictionary either in Sinhala unicode or phonetic.

[CSS3, Javascript, HTML, AJAX, JQuery, MySQL]

Moradevans



Official web portal for moradevans community which includes a forum, a contacts book, member management, member profiles and image galleries.

[Angular JS, PHP, HTML5, CSS3, JQuery, Bootstrap]

Nanosoft eTuition Manager



An android application for, 'E tuition manager' which is an off the shelf product developed by nanosoft solutions; coupled with a barcode reader to read the student identity cards and app brings most of the functionalities provided by the desktop application to the mobile device.

[Android, PHP, Java]

Multi modal Self Driving Autonomous Car



The car has the ability to avoid the obstacles and travel on a road by detecting lanes. Three different algorithms are used for lane detection, that suites three different road conditions. (High ways, Noisy roads, Indoor roads).

[OpenCV, java, Rasberry Pi, node js, Arduino]

Sales management System (Crown Biscuits)



Connects multiple locations of the company; factories and sales points. Support offline transactions and near real time transaction synchronization between all instances.

[Multi-master DB replication, SymmetricDS, Spring, Hibernate]

♣ AWARDS ■ AWARDS

2015

Dean's List

Semester 2,3 & 5 2016

Faculty of Engineering, University of Moratuwa.

Recognition Award

Awards Ceremony, University of Moratuwa

For non-academic achievements as an undergraduate

Best all-round Student 2008

Maliyadeva College

Best Chess Player

2005 Colors Awarding Ceremony

Maliyadeva College

All island best chess player

2005,2006 1st board

Awarded by chess federation of Sri Lanka