

KUSAL THIWANKA

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No. 704/5, Kulasewana Road,
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EDUCATION

- **B.Sc. (Hons) in Electronics and Information Technology** Jan 2016 - Mar 2020
University of Colombo, Sri Lanka
Rank: Second Class Honors
GPA: 3.03
- **G.C.E Advanced Level** Jan 2012 - Aug 2014
Mathematics - B, Physics - B, Chemistry - C

Further Education for Personal Development:

- **Blockchain Basics - University at Buffalo**
(Coursera Certification - Grade 98%)
- **Getting Started with Python - University of Michigan**
(Coursera Certification - Grade 99%)

RESEARCH INTERESTS

- Cybersecurity
- Cloud Technology
- Blockchain Technology

RESEARCH EXPERIENCE

Analyze and Redevelop Custom System (Industrial Research Project) Sep 2019 - Feb 2020
Undergraduate Industrial Research Project, University of Colombo, Sri Lanka

- Analyze existing two separate generic system's weaknesses and adaptability issues and redeveloped cloud base multi-access custom system to manage proposal creation process and parcel tracking process.

WORK EXPERIENCE

Software Engineer April 2020 - Present
KILATECH Startup Software Company in Sri Lanka

Work in KILATECH software development company as a Software Developer which involved in various projects covered software engineering concepts, development, testing and best practices. These are the main project that I was developed

- Shopify Applications (countdown timer, currency convertor)
- Video Content Protection Service
- Learning Management System

WORK EXPERIENCE (CONTD.)

Trainee Software Engineer

Apr 2019 – Dec 2019

FMI (Pvt) Ltd Company in Sri Lanka

Worked in Facilities Management Integrated (Pvt) Ltd in the Enterprise Development as a assistant software engineer which involved in various projects covered software engineering concepts, development, testing and best practices. These are the main project that I was developed

- Proposal Management System
- Mailroom Tracking System
- FMI Feedback Mobile App

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, PHP, JavaScript
- **Mathematical Packages:** MATLAB, SciLab
- **Database Management:** MySQL, SQLite
- **Blockchain Development, Cloud Computing, Data Analytics**
- **Raspberry pi, AVR Programming(C), LabVIEW**

PROJECTS

- **Online Video Player** (Secure your video from being downloaded)
This video player provides high level content protection service to secure your precious video content from being downloaded.
 - Django • Java • REST • Nginx • MongoDB
- **Custom CRM System** (Final Year Research Project)
This system that can help FMI company day to day works. Proposal Management System is a web application designed with many features to help the proposal creation process. And Mailroom Tracking system also a web base system that can track all internal and external delivery process
 - PHP • JavaScript • HTML/CSS/Bootstrap • jQuery • Apache • MySQL
- **LMS with Video Download Protection**
This is a cloud base Learning Management System that include high-level video protection services. Teachers can manage their classes monthly base or course base.
 - Django • React • REST • Nginx • MongoDB
- **Garbage Management System – IOT** (University Project)
This system provides innovative and eco-friendly waste management solutions. This System has IOT device and Tracking Mobile app. IOT device identify garbage level and send data to server. Data is collected and monitored on our Mobile App.
 - AVR • Arduino • Android Studio • Firebase

ACHIEVEMENTS

- Finalists at International Autonomous Robotics Competition (IARC) 2018 under the university category, organized by the IIT Kanpur, India.
- Runners-up at Sri Lanka Robotic challenge 2017, under the university category, organized by the University of Moratuwa, Sri Lanka.
- Finalists at IEEE Extreme 2016

EXTRA-CURRICULAR ACTIVITIES

- A member of Colombo Innovations and Robotics Club (CIRC) in Faculty of Science, University of Colombo, Sri Lanka in 2018/2019.
- A member of University Carom Team.
- A member of University LEO Club.
- A president of Mahanama College Senior Science Club in 2013/2014.
- A member of Mahanama College LEO Club.
- A member of the School President Cadet Platoon.

REFERENCES

- **Dr. Hiran H E Jayaweera**, Senior Lecturer
Department of Physics,
University of Colombo, Sri Lanka
Email: hiran@phys.cmb.ac.lk
- **Dr. Ujitha Abeywickrema**, Postdoctoral Researcher
Department of Physics,
University of Colombo, Sri Lanka
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- **Mr. G P N Boteju**, Lecturer
Computer Science,
University of Colombo School of Computing, Sri Lanka
Email: gpn@ucsc.cmb.ac.lk
- **Mr. Rukshan Perera**, (My Internship Supervisor)
IT Manager,
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