Oshan **Mudannayake**

RESEARCH INTERN · COMPUTER SCIENCE UNDERGRADUATE

25/4, Jayamawatha, Jayapura, 2nd Lane, Kottawa, Pannipitiya. 10230

☐ (+94) 71-908-4020 | ✉ oshan.ivantha@gmail.com | 🏠 ivantha.me | ⬡ ivantha | ⬛ ivantha

"The present is theirs; the future, for which I really worked, is mine" – Nikola Tesla

Education

University of Colombo School of Computing   *Colombo*

B.S. (HONS) IN COMPUTER SCIENCE   *2016 - PRESENT*

- Current GPA : 3.68

Maliyadeva College   *Kurunegala*

PHYSICAL SCIENCES   *2001 - 2014*

Certifications

2015	**Oracle Certified Professional, Java SE 6 Programmer**, Oracle	-
2015	**Robotics and Automation**, Dreamteam IT Solutions	
2015	**Professional Certified Java Developer**, Dreamteam IT Solutions	
2013	**Diploma in Software Engineering**, Esoft	
2010	**Diploma in PC Hardware and Network Administration**, Esoft	

Experience

Research Intern   *Colombo*

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING   *Aug. 2018 - Present*

- Got selected for the position of Research Intern to do a research under the area, "Machine Learning over Encrypted Data".

Software Developer   *Colombo*

LANGUAGE MATTERS   *Jan. 2018 - Present*

- Working on a project to make an industrial quality OCR solution for Sinhalese using Tesseract OCR engine.

Software Developer   *Kurunegala*

DREAMTEAM IT SOLUTIONS   *Mar. 2016 - Jan. 2017*

- Provided solutions to industrial problems in a R&D environment
  - Bra Elasticity Analyzing System
  - Yarn Detection System
  - Glove Defect Identification System

Course Instructor   *Kurunegala*

DREAMTEAM IT SOLUTIONS   *Jan. 2016 - Jun. 2016*

- Conducted introductory robotics and automation sessions.
- Conducted Q&A sessions for the OCPJP (Java 6) exam.

Projects

Realtime Property Evaluation of Large Streaming Graphs

CS RESEARCH, STREAMING GRAPHS, PYTHON, C++, APACHE SPARK

- Individual research project carried on the area of streaming graph summarization.

Petabyte Scale Cloud Storage File Manager

VUE.JS, OWNCLOUD, PUG

- GSoC 2018 project in collaboration with CERN-HSF, OwnCloud and AARNet Australia

Bra Elasticity Analyzing System

JAVA, SWING, IMAGE PROCESSING USING OPENCV

• Implemented a way to compare the elasticity of sports bras using image processing.

Smart Traffic Light System

MEAN STACK, FIREBASE, GOOGLE CLOUD PLATFORM, RASPBERRY PI, ARDUINO, MQTT

• Traditional time-interval based traffic light system was automated to remove the involvement of traffic officers in times of traffic congestion.

Glove defect identification system

JAVA, JAVAFX, ARDUINO, FSR 400

• Identified common the defects of gloves using image processing as they are passing through a conveyor belt.

Beacona

IONIC FRAMEWORK, PHYSICAL WEB BEACONS, CODEIGNITER FRAMEWORK

• Beacona is a platform where the window shoppers get notifications about the offers and suggested items in shops they pass by using the Physical Web Beacon technology.

Play to Learn

ANDROID

• Android game developed in the style of 'Snake & Ladders' to develop the algorithmic and programming skills of elementary students.

I Have a Theory

ANDROID

• I have a theory is a survival based adventure game that is designed to teach Chemistry to school children.

Seek

IONIC FRAMEWORK

• A geo location based voluntary teacher and student pairing service. Seek helps students find the voluntary teachers nearby to learn anything they wish.

Smart Glove

JAVA, JAVAFX, FSR 400, ARDUINO

• A glove that can measure the pressure distribution of the hand and the acceleration. This glove was designed with the idea of deriving the best patterns of movements of Cricket players in relation with hand pressure.

Honors & Awards

INTERNATIONAL

2018   **Participant**, Google Summer of Code (CERN-HSF | ownCloud | AARNet Australia)

2017   **2nd Place**, Presistant Hackathon (Persistent Systems)

DOMESTIC

2018   **1st Place**, CodeZilla (Uwa Wellassa University)

2018   **1st Place**, LetMeHack (Sabaragamuwa University)

2017   **Award Of Appreciation**, UCSC Achievement Awards (UCSC)

2017   **2nd Place**, HACKiNTRA (University of Vawuniya)

2017   **Finalists**, Codefest Designathon (Sri Lanka Institute of Information Technology)

2017   **Semi Finalists**, SS12 Asia (IEEE)

2017   **3rd Place**, Dialog Gaming Hackathon (Dialog Axiata)

2016   **1st Place**, Mozilla Web Maker Party (UCSC | Mozilla Club)

2016   **2nd Place**, SLIIT Codefest Tertiary Hackathon (Sri Lanka Institute of Information Technology)

2016   **1st Place**, IEEE PreXtreme 1.0 (UCSC | IEEE Student Branch)

2016   **6th Place**, ACES Coders (University of Peradeniya | Department of Computer Engineering)

2016   **5th Place**, Code Experts (University of Moratuwa | Department of Computer Engineering)

Grants

2018   **Travel grant - Hack the North 2018**, By Hack the North ogranizing committee

2018   **Full grant - ownCloud Conference 2018**, By CERN and ownCloud

Extracurricular Activities

Volunteering

2018	**Mentor - Google Code-In 2018,** Google | SCoRe Lab
2017	**Mentor - Google Code-In 2017,** Google | SCoRe Lab
2017	**Google IO Extended 2017,** Dialog
2017	**Question panel - preXtreme 2.0,** IEEE Student Branch of UCSC
2017	**Mentor | Question panel - International School Software Competition 2017 (ISSC),** Computer Society of Sri Lanka (CSSL)
2017	**Mentor - Help to Code,** Information and Communication Technology Agency of Sri Lanka (ICTA)
2016	**Mentor - Google Code-In 2016,** Google | SCoRe Lab
2016	**Delegate - IEEE Student/YP/WIE Congress 2016,** IEEE Sri Lanka Section
2016	**Mentor | Question panel - National School Software Competition (NSSC),** Computer Society of Sri Lanka (CSSL)
2016	**Instructor,** Exploration Club | UCSC

Committee Positions

2019	**President,** IEEE Student Branch of UCSC
2018	**Web Master,** IEEE Sri Lanka Section | Student Activities Committee (SAC)
2018	**Secretary,** IEEE Student Branch of UCSC
2018	**OC,** Mozilla Activate Sri Lanka
2018	**Android Developer,** Global Geek Sustainable Learning Kingdom (GGSLK) Sri Lanka
2017	**OC | Program Team - IEEE Student/YP/WIE Congress 2017,** IEEE Sri Lanka Section
2017	**OC | Finance - Technological Awareness Project,** IEEE Sri Lanka Section
2017	**OC | Program Team | Finance Team Lead - CloudHack '17,** IEEE Student Branch of UCSC
2017	**Core Team member,** Mozilla Club of UCSC
2017	**Coordinator,** IEEE Student Branch of UCSC
2017	**OC | Finance Team - Innover - IEEE IAS IOT Workshop 2017,** IEEE IAS Chapter Sri Lanka
2016	**OC | Program Team - UCSC IEEE Day 2016,** IEEE Student Branch | UCSC
2014	**Robotics Club President,** Maliyadeva College
2013	**Hardware and Networking Team,** Maliyadeva College

References

Mr G.P.Seneviratne *(+94) 71 323 9517*

Senior Lecturer at UCSC

- M.Phil (Cardiff), M.Sc. (Cardiff), B.Sc.(Colombo), Post Graduate Diploma in Computer Applications (Colombo)

Dr D.N.Ranasinghe *(+94) 11 258 9123*

Senior Lecturer at UCSC

- PhD (Cardiff), M.Sc. (Imperial College, London), BSc(Eng) Hons (Imperial College, London)

Dr. Gihan Kuruppu *(+94) 71 323 9517*

Chairman at Dreamteam Pvt. Ltd.

- MPhil - Computer Science(Peradeniya), BSc - Computer Science & Electronics(Wayamba), SCJP, SCMAD, MBCS