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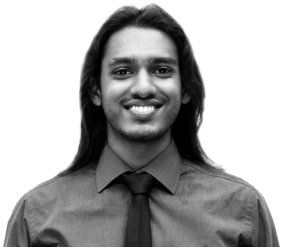
Rajith VIDANAARACHCHI

UNDERGRADUATE *of* COMPUTER SCIENCE & ENGINEERING



EDUCATION

University of Moratuwa — B.Sc. Computer Science & Engineering (Hons.)
2011 - 2016 (Expected) — GPA: 4.0 | Dean's List in All Semesters | First Class

Bandaranaike Centre for International Studies — Spanish Language
2010 - 2011 — Beginner's & Intermediate Levels Completed

Ananda College — G.C.E. Advanced Level
2008 - 2010 — 3As | National Rank : 71 (Within top 0.6% of Sri Lanka)

EXPERIENCE

University of Moratuwa — Visiting Instructor
2015 - present
CS3032 Computer Networks - Conducting weekly practicals for undergraduates.
CS2952 Communication Skills - Improving academic writing skills of undergrads.

ACM — Membership Chair at Student Chapter, University of Moratuwa
2015 - present
Responsibilities include maintaining the student chapter membership.

KARTOSOFT GmbH. — Software Engineering Intern
2014 - 2015 (Germany)
Responsibilities included developing a new component for the ERP system, partly based on Genetic Algorithms. [C# .NET / MS SQL]

Audinary — Co-Founder
2014 - present
Audinary (www.audinary.lk) is a Language Learning Platform, which combined my interests in language learning and technology.

Freelancing
2007 - present
Coded database related backends using PHP and MySQL.
Designed and implemented an Automated Movie Ticketing System using jZebra library for EPSON thermal printers and Python.

AWARDS & COMPETITIONS

IEEEXtreme Rankings

	Global	National
2011 :	100	10
2012 :	71	7
2013 :	48	4
2014 :	52	3

International Olympiads in Informatics
Represented Sri Lanka : 2007/2008/2009/2011
in Croatia | Egypt | Bulgaria | Thailand

Medals at Sri Lankan National Olympiads
Informatics : 2x Bronze, 2x Silver
Mathematics : 1x Bronze, 1x Silver
Physics : 1x Gold

TECHNICAL SKILLS

OS: Linux (8+ years) | Mac | Windows

Technologies:
Java | C | C++ | RoR | PHP | SQL
Python | OpenCV | Android | R | C#
git | JS

LANGUAGE SKILLS

Native Language : **Sinhalese**
Other Languages :
Full Working Proficiency — **English**
Limited Working Proficiency — **Spanish**
Elementary Proficiency — **German**

PROJECTS

3D Virtual Reality Framework < www.liveroom.lk/livelabs >

This is a Navigable 3D Virtual Environment Generation & Rendering Framework. Currently being developed for Android systems, making use of OpenCV, as the final year capstone project. Published a paper in DICTA '15 conference in Adelaide, Australia, titled "Quantitative and Qualitative Evaluation of Performance and Robustness of Image Stitching Algorithms" [OpenCV, Unity3D, C++, Python, Android, Java, R, JS, PHP, MySQL]

(CS4204 - Research & Development Project, Group Project)

Audinary: The Language Learning Platform < www.audinary.lk >

Ideated the concept and designed the architecture of a video based language learning platform which is scalable to any pair of languages. [Ruby, Ruby on Rails, postgresql, HTML5, JS, Bootstrap, C++, OpenCV, Python, Tesseract]

1st place in "Judge's Choice" and "People's Choice" competitions at the "Spiralation" hackathon organized in parallel to the World Conference on Youth - 2014.

Discover Lanka

Integrated maps API and developed the core structure of a location based, content aware Android application with an ontology based machine learning algorithm. [Android, Java, SQLite]

Won the award "Most Creative Application" at "CodeFest: 2013" by the Sri Lanka Institute of IT.

Cyber Security Drill

Played the Ex-Com (External Communication) role and developed strategies in a simulated D-DoS attack on banks and evaluated their emergency responses.

Decision Support System for SoilTech Pvt. Ltd.

Designed the systems architecture and coded the users bundle in a predictive project management system for a construction company. [PHP, Symfony, MySQL]

(CS2062 - Object Oriented Software Design, Group Project)

Engineering Gastronomy

Directed a video documentary on food habits and preferences of undergraduates.

(DE2370 - Video Production)

Worm Locomotion Robot

Designed and built a Worm Locomotion Robot built using scrap materials, mimicking the earthworm motions.

[PIC Microcontroller Programming]

(CS1962 - Engineering Skill Development, Group Project)

VOLUNTEERING & CAUSES

Sri Lanka Informatics Olympiad
2014 - present

Trainer
Conducted training sessions for students about to take part in the International Olympiad in Informatics and other international competitions. These sessions covered various topics in algorithms and problem solving.

Arigatou International
2011 - 2013

Trainer / Facilitator
Conducted training on "Learning to Live Together" (a UNESCO concept) for youth. Received training on communication, program facilitation and project management in workshops held at:

Coimbator, India | Geneva, Switzerland | Dar-es-Salaam, Tanzania

References are available upon request.