

# LAHIRU L. PRIYADARSHANA

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## AREAS OF EXPERTISE

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- Human Computer Interaction
- Design and User Experience
- Software Engineering
- Prototyping
- Mobile Engineering
- Start-up

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## TECHNICAL SKILLS

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- C++, C, Objective-C, Swift, Java, C#, JavaScript, PHP, Python
- Cocos2D, OpenFrameworks, OpenCV, Qt, Arduino, Open Hardware, Bluetooth Low Energy (Prior Experience)
- Xcode, Interface Builder, Git, Subversion

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## PROFESSIONAL EXPERIENCE

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**THALMIC LABS INC., KITCHENER, ONTARIO, CANADA**

**SOFTWARE ENGINEER - WEARABLE UX (PROTOTYPING)**

(FEB 2017 - PRESENT)

- PART OF THE SOFTWARE PROTOTYPING TEAM
- COLLABORATE WITH PRODUCT, DESIGN, RESEARCH, AND ENGINEERING TEAMS TO VALIDATE AND ENHANCE USER EXPERIENCE FOR WEARABLES THROUGH PROTOTYPING

**QUEEN'S UNIVERSITY, HUMAN MEDIA LAB, KINGSTON, ONTARIO, CANADA**

**RESEARCH ASSISTANT/TEACHING ASSISTANT**

(MAY 2015 - FEB 2017)

- RESEARCHED AND DEVELOPED ORGANIC USER INTERFACES (OUIs), COMPUTER INTERFACES THAT CAN TAKE ANY SHAPE
- DESIGNED AND EVALUATED INTERACTION TECHNIQUES FOR OUIs
- PROJECTS:
  - MAGICWAND: THE WORLD'S FIRST CYLINDRICAL HANDHELD DISPLAY DEVICE WITH FULL COLOUR HIGH-RESOLUTION FLEXIBLE ORGANIC LIGHT-EMITTING DIODE (FOLED) DISPLAYS
  - DESIGN OF INTERACTION TECHNIQUES FOR FLEXIBLE MOBILE INTERFACES
- TEACHING ASSISTANT FOR COMPUTING AND THE CREATIVE ARTS PROGRAM (COCA 201)

**LAUNCHSPOT.IO (WELLREAD INC.), WATERLOO, ONTARIO, CANADA**

**SOFTWARE ENGINEER IOS + WEB (CONTRACT - PART TIME)**

(AUG 2014 - JAN 2017)

- DESIGNED AND DEVELOPED LAUNCHSPOT APPLICATION SUITE FOR IOS
- DESIGNED AND DEVELOPED THE FIRST NATIVE IPHONE APPLICATION FOR LAUNCHSPOT

**KREYONIC INC., WATERLOO, ONTARIO, CANADA**

**CO-FOUNDER, CHIEF EXECUTIVE OFFICER**

(SEP 2013 - AUG 2014)

- CO-INVENTED *STEAMBLOCKS* AND *SMART PLUSH TOYS* AND LED THE PROVISIONAL PATENT APPLICATION PROCESS
- DIRECTED PRODUCT DEVELOPMENT AND DESIGN FOR *STEAMBLOCKS*, A SET OF MODULAR ELECTRONIC BLOCKS TO ENCOURAGE CHILDREN IN COMPUTER PROGRAMMING AND ELECTRONICS
- LED PRODUCT DEVELOPMENT AND EXECUTION OF THE INITIAL PRODUCTION RUN FOR *SMART PLUSH TOYS* INTEGRATION WITH TABLET APPLICATIONS

**KREYONIC (PVT) LTD, KOTTAWA, SRI LANKA**

**CO-FOUNDER, CHIEF EXECUTIVE OFFICER**

(OCT 2011 - SEP 2013)

- MANAGED TECHNOLOGY DEVELOPMENT FROM CONCEPT TO PROTOTYPE FOR *LEAMO*, AN ACTIVITY BASED INTERACTIVE EDUCATIONAL GAMING PLATFORM FOR CHILDREN

- INITIATED THE COMPANY AND SIGNED UP 6 CLIENTS, SUCCESSFULLY EXECUTED 7 PROJECTS IN LESS THAN 10 MONTHS FROM THE COMPANY FORMATION

### **BIOINFORMATICS FOR GLOBAL GOODS, TOKYO, JAPAN**

#### **SOFTWARE ENGINEER**

(SEP 2010 - OCT 2011)

- RESEARCHED, DESIGNED AND DEVELOPED AN OPENCV BASED MODULE FOR CONTOUR DETECTION AND FRAGMENTATION TO GENERATE A DETAILED 3D MESH STRUCTURE OF CELL AND SUB-CELL BODIES
- IMPROVED AND MAINTAINED A MEDICAL IMAGING APPLICATION FOR TRANSMISSION ELECTRON MICROSCOPY (TEM) IMAGES

### **WSO2 LANKA (PVT) LTD, COLOMBO, SRI LANKA**

#### **SOFTWARE ENGINEER**

(NOV 2009 - SEP 2010)

- DEVELOPED AND IMPROVED THE ARCHITECTURE AND DESIGN OF THE GRAPHICAL USER INTERFACE AND DASHBOARD WIDGETS FOR WSO2 BUSINESS ACTIVITY MONITOR (WSO2BAM)
- RESEARCHED, DESIGNED AND DEVELOPED A JAVASCRIPT FRAMEWORK FOR DATA VISUALIZATION

### **GAMOS TECHNOLOGY SOLUTIONS (GTS), COLOMBO, SRI LANKA**

#### **SOFTWARE ENGINEER - RESEARCH & DEVELOPMENT**

(JULY 2009 - OCT 2009)

- RESEARCHED AND DEVELOPED SRI LANKA'S FIRST SURFACE COMPUTING SYSTEM (MULTI-TOUCH TABLE)
- DEVELOPED FLASH/ACTIONSCRIPT3 APPLICATIONS AND GAMES FOR MULTI-TOUCH TABLES

## **EDUCATION**

**M.Sc. in Human Computer Interaction**, Queens University, Kingston, Ontario, Canada  
2015 - 2017

**Thesis:** MagicWand: A Comparison of Gestural Affordances Between Cylindrical and Flat Display Form Factors

**B.Sc. (Hons) in Software Engineering**, University of Westminster, London, UK  
First Class Honours 2005 - 2009

**Thesis:** iDisplay: A Computer-Vision Based Solution to Retrofit Existing Flat Displays into Interactive Surfaces

## **AWARDS & DISTINCTIONS**

National Best Quality Software Awards (NBQSA) 2009, Gold - in the Tertiary Category

A Special Award for the Best Product Developed Using Open Source Technologies at the  
National Best Quality Software Awards (NBQSA) 2009

Merit Award at the Asia Pacific ICT Awards (APICTA) 2009 - in the Tertiary Category

Nominee from Sri Lanka in Asia Pacific ICT Awards (APICTA) 2009 held in Melbourne,  
Australia

Academic Excellence Award, First Prize for the best final year undergraduate project at  
"IIT Cutting Edge" exhibition 2009

Presentation on Google Summer of Code at Free Software Conference at Informatics  
Institute of Technology, Sri Lanka in Oct 2008

Main organizer and the host of the local Google Desktop gadget competitions: IIT Google  
Desktop Developer Challenge I and II