Dulitha Ranatunga

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Objective

To work on interesting products alongside motivated individuals for the betterment of humanity.

Employment	
Orion Health Junior Software Engineer Dec 2014 – Present	Canberra
 Graduate Software Engineer Feb 2014 – Dec 2014 Full stack developer working on clinical software and drug terminologies. Coding experience in Java, Hibernate, Javascript, YUI and SCSS. Automated test experience in Arquillian, JUnit, Selenium. Certification: Oracle Certified Professional, Java SE 6 Programmer 	
Commonwealth Scientific and Industrial Research Organisation (CSIRO) Research Projects Officer Feb 2012 – Feb 2014 Summer Vacation Scholar Nov 2011 – Feb 2012	Canberra
 Collaborated with researchers to create a platform of presenting cutting edge research in an innovative and meaningful way to the general public. Created multi-touch application for 3D object manipulation. Experience in Python, H3D, Java and Point Cloud Library. 	
Australian National University (ANU)	Canberra

Student Ambassador | Mar 2011 – Dec 2013

 $\hfill\square$ Demonstrated research projects and engaged with prospective students.

Education

Australian National University | 2010 - 2013

Bachelor of Advanced Computing (Honours) – 1st Class Honours | Major in Human Centric Computing

- □ Undertook honours research project to enable real time manipulation of 3D objects using a multitouch interface for remote guidance purposes. Imagine a video conference scenario where you can 'touch' objects in the other persons' environment and have your directions projected directly into their environment.
- □ Worked for Red Hat as part of undergraduate project on detecting vulnerable dependencies at build and run time. As part of this, I created a tool for minifying python files using abstract syntax trees.

University of Nottingham | Sep 2012 – Jan 2013 Study Abroad Semester

□ Undertook modules in Mixed Reality, Computer Graphics, Algorithms, Bioinformatics, Human-Computer Interaction and Cloud Computing

Australian National University | Dec 2011

Human Computer Interaction Summer School

□ Learnt Kinect development and research methods for user studies.

November 8, 2015



Major Projects and Publications

2015 Orion Health: Creating a global drug model for normalizing international drug terminologies.

2014 Orion Health: Web application for maintaining a unified managed list of medications.

2013 Honours Thesis: Object manipulation in 3D remote guidance systems.

Published: Matt Adcock, Dulitha Ranatunga, Ross Smith, and Bruce H. Thomas. 2014. Object-based touch manipulation for remote guidance of physical tasks. In Proceedings of the 2nd ACM symposium on Spatial user interaction (SUI '14). ACM, New York, NY, USA, 113-122.

Published: Ranatunga, D.; Adcock, M.; Feng, D.; Thomas, B., "Towards object based manipulation in remote guidance," in Mixed and Augmented Reality (ISMAR), 2013 IEEE International Symposium on , vol., no., pp.1-6, 1-4 Oct. 2013

2013 Red Hat: Developed a minification tool for python 2.x using abstract syntax trees.

2013 CSIRO: Created a 3D volumetric display for public display at Questacon.

2012 CSIRO: Developed novel multi-touch interface for interacting with 3D point clouds using Python and H3D. (1000+ lines of code)

Experiences

SIGGRAPH 2012 Conference	Los Angeles
Student Volunteer Aug 2012	
Demonstrated at emerging technology stalls for conference contributors.	
ANU Computer Science Students Association Vice President Jan 2011 – Jul 2012	Canberra
 Organise and promote technology related events for over 300 members and students with an interest in computing at ANU. Primary organizer of the event that was awarded 'ANUSA Event of the Year 2012'. 	
	Canberra
Microsoft Australia	
Microsoft Student Partner Jan 2011 – Jan 2012	
Presented a Kinect development workshop in October, 2011 <u>https://www.youtube.com/watch?v=FlsKnMKlcg8</u>	
Private Tutor 2011	Canberra
 Private futor 2011 Privately tutored Haskell and Java with a focus on COMP1100 at ANU. 	
Awards and Honours	
2013: Ian Ross Honours Scholarship, Research School of Computer Science	
2012: International Student Exchange Program Grant by DIISRTE	
2011: Blackhall Undergraduate Prize in Innovation ACT 2011	
2010 and 2011: ANU Chancellors Letter of Commendation	

2010 and 2011: College of Engineering and Computer Science Dean's List Award