

Suresh ALSE

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EDUCATION

DEC 2016 MS, Computer Science

University of Southern California, Los Angeles

MAY 2014 BTech, Information Technology

National Institute of Technology Karnataka, India

WORK EXPERIENCE

JAN '16 - CURRENT

Student Researcher, **Information Sciences Institute**

Working on a python based REST service for Karma, an information integration tool – to automatically assign semantics to large data sets from heterogeneous sources based on their features using several Statistical and Machine Learning techniques.

Tech stack

Python, Machine Learning, AI, Flask, Spark, Elastic search.

AUG '14 - AUG '15

Software Development Engineer, **Intuit Inc.**

Worked on core development of QUICKBOOKS, an accounting software used by several million users all over the world. I efficiently drove several initiatives in QB core.

Tech stack

C++, C#, .NET, MFC, Agile Development.

MAY - JULY '13

Summer Intern, **Intuit Inc.**

Worked with QUICKBOOKS android team and developed a code generator that can generate java code for new features based on old features automatically which in turn reduced development, testing and maintenance time to a great extent.

Tech stack

Java, SWT, Android Development.

RELEVANT PROJECTS

- **Pai-deia** | alseambusher.github.io/Paideia | **Java, C++, Android, Deep Learning**

This is a Deep Learning based android app that uses Tensorflow and detects objects around you through camera and maps it into one of the classes in Imagenet and then pulls more information about what the user is seeing from Wikipedia and Wolfram Alpha. The results are also tweaked based on a learning model that monitors user's activity and shows more relevant content over time.

- **Jarvis** | github.com/alseambusher/jarvis | **Python, opencv, gtk**

This is a Human Computer Interaction tool in python using which it is possible to control your Linux system using hand gestures. Users can add their own gestures and assign custom actions using a gtk ui. In order to accommodate any gesture defined by the user, I developed a state transition based approach to do so and published a paper at ICACCI- 2013.

- **Crontab-ui** | npmjs.com/package/crontab-ui | **JavaScript, node.js**

This is a node.js tool available through npm that can be used to manage cron jobs across systems very easily. With features such as import, export, backup, error logging of jobs, this is an end-to-end tool to manage crontab efficiently. This is being used by over thousand people including several companies.

- **Columbus** | github.com/alseambusher/columbus | **Python, Machine Learning**

A python based service discovery tool using which we can combine web services automatically to perform composite tasks. Using techniques such as web crawling, feature extraction, k-means clustering, a Service dependency graph (SDG) is generated. Composite services are discovered by a search algorithm in this SDG.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C/C++

Web frameworks: node.js, webapp2, django, React, SASS

Others: Android, Machine learning, Artificial Intelligence

PUBLICATIONS - GOOGLE SCHOLAR: <https://goo.gl/DZFPZA>

- Alse, S, et al, "A State Transition Based Approach to Recognize Gestures Using Multi-Level Color Tracking", 2nd ICACCI, IEEE International Publishing, 2013, 704-708.
- Alse, S, et al, "A Real Time Multiplayer Gaming Network Platform as a Service", 8th ICCN, Elsevier International Publishing, 2014, Ch 19.
- Alse, S, et al, "Automatic Generation of Web Service Composition Templates Using WSDL Descriptions", 2nd International Conference on Information Systems Design and Intelligent Applications, Springer India, 2015.