Suresh Alse

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Education

Dec 2016	MS, Computer Science	
	University of Southern California, Los Angeles	GPA: 3.65
May 2014	BTech, Information Technology	
	National Institute of Technology Karnataka, India	GPA: 4.0

Work Experience

May '16 - Current | Summer Intern, **Adobe Systems**
Working with WCMS team to build a tool to automatically migrate websites on an older version of Adobe Experience Manager to a newer version with minimal manual work. I also built a tool for adobe.com which serves as its internal dashboard.
Tech stack | **Java, Nodejs, Bash, Adobe Experience Manager.**

Sep '15 - 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 Engineer, **Intuit Inc.**
Worked on core development of QuickBooks, an accounting software used by millions all over the world. I efficiently drove several initiatives in QB core and QB Help. I also worked with QuickBooks android team and developed a code generator that can automatically generate java code for new features based on old features which in turn reduced development, testing and maintenance time to a great extent.
Tech stack | **C++, C#, .NET, MFC, Java, Android.**

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 though 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

Top 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.