Suresh Alse

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Education

Dec 2016	MS, Computer Science	
	University of Southern California, Los Angeles	GPA: 3.62
May 2014	BTech, Information Technology	
	National Institute of Technology Karnataka, India	GPA: 8.9/10

Work Experience

Jan '17 - Current | Software Engineer, **Adobe Systems**, San Jose
Working on building Adobe offer manager which is a tool which powers sales to target enterprises with products from Adobe - driving millions in business for Adobe. Previously, when I was an intern, I built a tool to generate reports with statistics of components from several data centers. The tool also included features such as checksum verification, scheduled reports, visualization and aggregation of data.
Tech stack | **Java, AEM, python**

Sep '15 - Dec '16 | Researcher, **Information Sciences Institute**, Los Angeles
Worked 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, Statistics**

Aug '14 - Aug '15 | Software Engineer, **Intuit Inc.** Bangalore
Worked on core development of QuickBooks. 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 hence reducing 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.
- **Santander Customer Satisfaction** | **Python, XGBoost, Kaagle**
  In this project, I worked on a Kaggle problem by Santander to classify which customers are happy. It was a binary classification problem with 371 unknown attributes, 76,020 samples for training and 75,818 samples for testing. We used techniques such as outlier detection with clustering, dimensionality reduction, feature engineering, cross validation and classification to arrive at the final result with an accuracy of 84.27%.
- **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 thousands of 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++
Frameworks:	Tensorflow, Keras, numpy, deeplearning.js, node.js
Others:	Android, Machine learning, Artificial Intelligence

Top Publications - Google Scholar: https://goo.gl/DZFPZA

- Pham, M, et al, "Semantic labeling: A domain-independent approach", 15th International Semantic Web Conference (ISWC), 2016.
- 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, 2015.
- 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.