Suresh ALSE

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EDUCATION

DEC 2016	MS, Computer Science **University of Southern California**, Los Angeles	GPA: 3.58
MAY 2014	BTech, Information Technology **National Institute of Technology Karnataka**, India	GPA: 4.0

WORK EXPERIENCE

SEP '15 - CURRENT	Student Researcher, **Information Sciences Institute**, Los Angeles 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, Spark, Elasticsearch.**
MAY '16 - AUG '16	Summer Intern, **Adobe Systems**, San Francisco Working with adobe.com team to build a tool to generate reports about statuses of links to www and AEM from several data centers. The tool includes features such as data visualization, checksum verification, scheduled reports and aggregation of data.
Tech stack	**Nodejs, Graphite, Adobe Experience Manager.**
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++
Web frameworks:	node.js, webapp2, django, React, SASS
Others:	Android, Spark, Machine learning, Artificial Intelligence

ACHIEVEMENTS

- Won CalTech's HackTech for Pai-deia.

- Won Visa Data Science Hackathon for credit card fraud analysis and visualization.

- Won UC Berkley's Calhacks for collaborative filtering based travel suggestion system.

- Won Intuit Innovation Challenge for QuickFoods - an app for restaurants to manage their orders efficiently.