

# Suresh ALSE

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LINKS: [github.com/alseambusher](https://github.com/alseambusher)

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## EDUCATION

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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

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JAN '16 - CURRENT

Research Assistant, **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

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- **Jarvis** | [github.com/alseambusher/jarvis](https://github.com/alseambusher/jarvis)

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](https://npmjs.com/package/crontab-ui)

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 about thousand people including several companies.

- **Columbus** | [github.com/alseambusher/columbus](https://github.com/alseambusher/columbus)

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.

- **Social Event Detection** | [github.com/alseambusher/SED](https://github.com/alseambusher/SED)

I built a python based tool that can automatically detect social events using Multimodal clustering. I obtained event-related multimodal multimedia and organized them in event-specific clusters. This approach essentially achieves “supervised fusion” of heterogeneous features and retrieves clusters that are related to social events.

## TECHNICAL SKILLS

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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>

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- 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.