Suresh Alse

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Links: Github | LinkedIn | Website

Education

Current — MS, Computer Science (Data Science)
University of Southern California, Los Angeles

May 2014 — BTech, Information Technology
National Institute of Technology Karnataka (NITK), Surathkal **GPA: 4.0**

Work Experience

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.

May - July '13 | Summer Intern, **Intuit Inc.**
Worked with QuickBooks android team and developed a code generator that can automatically generate JAVA code for new features based on old features with minimum or no human intervention.

Nov - Dec '12 | Intern, **Bilent.**
Worked on Kyash which is an online payment system which helps people to work in mutually beneficial and trusted environment.

May - July '12 | Summer Intern, **Indibits Web and Business Solutions.**
Worked on an open-source wiki application.

Relavent Projects

- **QuickBooks Desktop** - QuickBooks is an accounting software by Intuit used by millions of users worldwide. It involved me working on a humanous code of several million lines of code consisting of variety of technologies including MFC, WPF, Sybase, Intuit's proprietory RX technology in both C++ and C#. As the code itself consists of several legacy technologies, I had to follow very strict coding standards in order not to break the existing system.
- **QuickBooks Code generator** - QuickBooks android was a relatively new product and there was a huge demand for more features. I made a desktop software in SWT that can generate android java code for new features that have to be added based on the already existing features. Hence, using this, one could add new features with minimum or no human effort.
- **Jarvis** - It is a python and gtk based desktop application for linux computers that allow users to control their systems using their hand gestures. Users were allowed to add new gestures and their corresponding action items using the user interface. The gesture processing was done in opencv using a new technique which was later published as a paper titled "A State Transition Based Approach to Recognize Gestures Using Multi-level Color Tracking" at ICACCI- 2013. More info.

Technical Skills

Programming Languages:	C++, Java, Python, C# and PHP.
Desktop UI frameworks:	MFC, WPF, gtk and SWT.
Version control systems :	git, Perforce and svn.

Publications

- Alse, S, et al, "A State Transition Based Approach to Recognize Gestures Using Multi-Level Color Tracking", 2nd International Conference on Advances in Computing, Communications and Informatics, IEEE International Publishing, 2013, 704-708.
- Alse, S, et al, "A Real Time Multiplayer Gaming Network Platform as a Service", Eighth International Conference on Computer communication networks (ICCN 2014), 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, 2194-5357.