Pradeep Thalasta

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Education

University of Southern California, Los Angeles, California

M.S. in Computer Science — *August. 2016 - May. 2018*

National Institute of Technology, Karnataka, Surathkal, India — *CGPA: 8.63*

B.Tech. in Information Technology — *July. 2011 - May. 2015*

Computer Skills

Languages

Java, C, C++, Python, Shell scripting, SQL, HTML, CSS, JavaScript, Cuda.

Applications

Vi/Vim, Eclipse, Git, VMWare, VirtualBox, MySQL, Oracle 11g, Sublime Text, Cassandra, Redis, Microsoft Office.

Operating Systems

Unix, Linux, Mac OSX, Windows.

Experience

Samsung R&D Institute India-Bangalore — *Bangalore, India*

Software Engineer — *July. 2015 - July. 2016*

- Worked on Server side programming and designed the service architecture as a part of Internet of Things and Smart Assistant Team for the Jifical application(available on Play Store).
- Implemented MVC design pattern for the server on AWS using different frameworks like Spring MVC, Hibernate, Java, Cassandra, Machine Learning and Natural Language Processing.
- Filed a **Patent** Application on Multi-touch gestures for applications on devices with curved edge displays.
- Obtained **Most Promising Idea Award** during intra division Hackathon.

Samsung R&D Institute India-Bangalore — *Bangalore, India*

Student Trainee Intern — *May. 2014 - July. 2014*

- Designed and developed an Android based testing application to check the accuracy and correctness of the application's output.
- Involved different APIs and frameworks based on Android platform and Java.
- Automated testing using the designed application and measured the accuracy of the details provided by the applications being tested.

Projects

Undergraduate Research, Web Technology and Wireless Sensor Networks — *Surathkal, India*

Researcher for Energy Efficient Image Compression in Multimedia Wireless Sensor Networks under the guidance of Dr. Geetha V — *July. 2014 - May. 2015*

- Researched on enhancing overall lifetime of the network based on the technique of Region of Interest and scheduling.
- Compared and Enhanced the energy utilisation of the existing compression techniques like SPIHT, JPEG 2000 and JPEG XR.
- Implemented prototype to compress and transmit image data from remote location with minimal consumption of energy using Matlab, C, ns2.
- Enhanced the overall lifetime of the entire network by 30%.

Web Service Discovery and Recommendation — *Surathkal, India*

Researcher for Web Service Discovery under the guidance of Dr. Sowmya Kamath — *July. 2014 - May. 2015*

- Designed and implemented Web Service Discovery and Recommendation to the user.
- Involved skills on Machine Learning and Natural Language Processing using Python and MongoDB.
- Enhanced the efficiency and correctness based on clustering and classification of web services.

A Graph Based Technique to Find Common News Contents From Multiple News Sources — *Surathkal, India*

Researcher for Data Mining and Information Retrieval under the guidance of Dr. Sowmya Kamath — *January. 2014 - April. 2014*

- Designed and implemented a graph based algorithm to find the common news contents.
- Involved skills on Natural Language Processing, Machine Learning and Data Mining using Java, MySql and web crawlers.
- Improved the correctness of the results using graph based techniques.
- Enhanced and proposed a new method to find common news contents from different sources.