

DEEPTHI DEVARAJ

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EDUCATION

University of Southern California, Los Angeles, CA

May 2019

Master of Science in Computer Science

3.4/4.0

Courses: Analysis of Algorithms, Foundations of Artificial Intelligence, Database Systems, Applied Natural Language Processing, Information Retrieval and Web Search Engines, Foundations and Applications of Data Mining (Ongoing), Machine Learning (Ongoing)

Visvesvaraya Technological University, Bangalore, India

June 2015

Bachelor of Engineering in Computer Science

4.0/4.0

- A Gold medalist of the university for having secured highest aggregate marks and bagged six gold medals

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++
- **Web Technologies:** HTML, CSS, JavaScript
- **Tools:** Visual Studio, Eclipse, IntelliJ, GIT, Docker, JIRA
- **UI Tools:** EB Guide, CGI Scene Composer, visualState, Qt
- **Operating Systems:** Windows, Linux, iOS
- **Database:** MySQL, PostgreSQL

WORK EXPERIENCE

Graduate Technical Intern, Intel Corporation, Folsom

June 2018 - August 2018

- Developed plugins in Python to enable automation of Graphic driver Test Automation Software
- Improved execution planning cycles for team and enhanced efficiency in testing by 20%
- Added features for debug data collection and data analysis of test results by 5-10%
- Performed code testing and delivered results biweekly

Graduate Student Research Assistant, USC Information Sciences Institute, Marina Del Rey

October 2017 - June 2018

Evidence Extraction project (under Prof. Gully Burns) is focused on using information extraction techniques for figures and text to pinpoint and extract evidence from scientific papers.

- Worked on developing a Domain Interface Graph version of data
- Built a text annotation graph for project data and upgraded applications utilizing Docker

Associate Software Engineer, Robert Bosch Engineering and Business Solutions Limited

August 2015 - June 2017

- Managed all phases of Graphical User Interface(GUI) design for Navigation Component of car cluster
- Developed UX using EB Guide and CGI as primary tools for infotainment systems
- Coded interaction of UX and middleware using C++ as primary language with MVC architecture
- Enhanced Navigation Middleware for Profile Manager feature to provide APIs beyond operating system
- Performed unit testing at a developer level through simulations to ensure software quality

PROJECTS

- **SIREA911 - Send Immediate Response Assistance** (Submission for Hacktech 2018 - <https://devpost.com/software/syria911>), Application provides immediate first aid information through traditional channels of SMS, MMS and Calls (*Python, Microsoft LUCID, AWS*)
- **Creating an Inverted Index using Hadoop Cluster**, Created an Inverted index of words occurring in a set of webpages (*Google Cloud Platform, Java*)
- **Indexing Web using Solr and Building a Web Search Engine**, Executed Page rank algorithm and built a web search engine with functionalities of auto correction and auto suggestion (*Solr, PHP*)
- **Hotel Reviews Classifier**, Developed Vanilla Perceptron and Average Perceptron to classify hotel reviews as True/Fake and Positive/Negative with a test-set F1 score of 0.90 for averaged perceptron (*Python*)
- **Part of Speech Tagger**, Implemented language independent Hidden Markov Model for predicting POS tag for each word in a sentence and achieved a test-set F1 score of 0.91 on provided data set (*Python*)
- **Fruit Rage Game**, Built an AI agent to predict the next optimal move in a 2-player game using alpha-beta pruning and iterative deepening
- **First Order Logic Inference Engine**, realized an inference engine to solve first order logic resolutions using Python
- **An Energy Efficient Routing Protocol for Heterogeneous Wireless Sensor Networks** (Funded by KSCST, IISc), Implemented two routing protocols to find an efficient path between two kinds of sensor nodes deployed in a network and base station using Java
- **Technology Literacy Drive**, Developed a web platform to teach children from local schools different parts of grammar. This project was taken up with an initiative to increase literacy rate in 2 specific government schools

PUBLICATIONS

- Deepthi Devaraj, (other authors). **Building a simple test bed for WSN**. International Journal of Latest Trends in Engineering and Technology (IJLTET), Volume 5 Issue 4 July 2015, pg. 377 – 384
- **Big Data in Cloud and Cloud Services**, 3rd National Conference on Recent Advances in Technology and Engineering, Bangalore

AWARDS AND RECOGNITION

- Recognized at Intel for ‘Result Orientation - Flawless Execution’ during summer internship 2018
- Won “Best Performer” award at Robert Bosch for annual year 2016 in a team of 60