

Arul Samuel Rajkumar

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EDUCATION

University of Southern California, Los Angeles, CA

Masters in Computer Science (Software Engineering)

Expected May 2015, GPA 3.76

Anand Institute of Higher Technology, Kazhipattur, Chennai, India

Bachelors in Computer Science and Engineering

May 2011, 84%

COURSES

Analysis of Algorithms, Advanced Big Data Analytics, Artificial Intelligence,
Software Engineering – I, Software Engineering – II, Software Management and Economics

TECHNICAL SKILLS

Programming Languages:	Java (expert), Python (proficient), R(Competent), C (Competent), C++ (beginner)
Technology:	J2EE, Django, Javascript, HTML, CSS, Android, XML, Design Patterns
Databases:	MySQL, MongoDB, Oracle
Applications:	MS Office, Eclipse, R Studio, Toad, Oracle Forms, Visual Paradigm

WORK EXPERIENCE

Data Engineer (Intern) at Wavelio, Los Angeles

May 2014 - Present

- Built web scrapers for collecting sports data and tweets using Python Scrapy and Tweepy API.
- Created a data pipeline for the social media recommender systems using Python and MongoDB.

Data Analyst (Student Worker) at USC Office of Institutional Research (Summer Position)

May 2014 - Present

- Developed scripts for performing data cleaning and multi-label classification of University Course Evaluation Data using R, Python and Weka.
- Developed Python scripts and SQL stored procedures for automating day-to-day data cleaning activities.

Systems Engineer, J2EE technology, Infosys Ltd., Chennai, India

Dec 2011 - June 2013

- Worked and tested the PEAS Workflow Management module in the Finacle Universal Banking Solution project.
- Designed and developed a tool for Process workflow automation using Core Java, Swings and XML.

ACADEMIC PROJECTS

Survey of Music Recommender Systems, USC

Feb 2014 – May 2014

- Processed and analyzed the Million Song Dataset for the effect of song attributes in making predictions.
- Implemented the Nearest Neighbor with vector cosine distance metric and Matrix Factorization approaches for item-based and user-based similarity prediction.

lose4good.org, USC Software Engineering Project, System Architect

Aug 2013 – May 2014

- Provides a platform for weight-lossers to get sponsorship thereby funding the charity organizations.
- Collaborated with the client to design the architecture and UML diagrams using Visual Paradigm.
- Developed the goal creation module using Django, Python and HTML.

Automating Software Project Success Prediction using Supervised Learning, USC

March 2014 - April 2014

- Extracted and wrangled data for the history of software project success factors.
- Implemented Logistic Regression classifier for making predictions and to analyze effects of success critical factors.

Topic Modeling in New York Times Corpus, Advanced Big Data Analytics, USC

Feb 2014- Mar2014

- Developed a Topic Modeling algorithm using Latent Dirichlet Allocation (LDA) for identifying the multinomial distribution of topics in the dataset using C++.
- Optimized the execution of algorithm using OpenMP for parallelization.

The Design and Implementation of University Digital Archive based on DSpace

July 2010 - May 2011

- Designed and developed a web based Digital archival system using the COTS – Dspace, JSP, HTML, CSS.

HOBBY PROJECTS

Analysis of Web Server Log

Jan 2014

- Developed code to analyze the web server log using Cloudera CDH and mapreduce programming paradigm.

Online Survey J2EE Project

Apr – Jun 2012

- Involved in the end-to-end implementation of the online survey website using JSP, jQuery, Primefaces.

AWARDS & ACHIEVEMENTS

Fin-o-pedian Award, Infosys Ltd.

May 2012

- Developed automated tool to reduce version mismatch issues and resolved critical bugs in Finacle UBS project.

EXTRA-CURRICULAR ACTIVITIES

Colors Initiative Anchor, Infosys Ltd.

May 2011 - June 2013

- Managed three colleagues to organize monthly social events attended by about 30 employees.
- Member of Association of Computing Machinery (USC).