

SANDEEP SHANTHARAM

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Information Science graduate student with 5+ years of professional experience in Software Development. Currently seeking full time opportunity to utilize my expertise in:

- Data Analysis
- Statistical Analysis
- Data Mining
- Software Application Design and Development

TECHNICAL SKILL

Languages	:	Java, Python (Scipy - Pandas, Numpy), R, Javascript (AngularJs, JQuery), COBOL, Shell Scripting (Sed, Awk), HTML, XML, CSS
Databases	:	MySQL, Oracle, MongoDB, ElasticSearch, Neo4j, SciDB, Redis
Software Platforms	:	Tableau, Talend Open Studio,
OS Platforms	:	Linux, Windows, UNIX, z/OS (Mainframe)
Technologies (Big Data)	:	Hadoop, Apache Spark, GraphLab Create (Dato), scikit-learn
DevOps	:	Docker, Mesos (Chronos and Marathon), Starcluster,
Servers	:	Nginx, Tomcat, Apache

EDUCATION

Master of Science in Bio-Informatics, May 2015 (Expected)
Indiana University – Purdue University, IN, USA

Bachelor of Engineering in Bio-Technology, July 2009
Visvesvaraya Technological University,
Sri Jayachamarajendra College of Engineering, Mysore, KA, India

PROFESSIONAL EXPERIENCE

Research Assistant August-2013 to Present

School of Informatics, Indiana University – Purdue University, IN, USA

- Implementing a Big-Data Analytical Platform to analyze large Biological Datasets for discovering drug leads for Cancer Diseases.

Data Analyst Intern June-2014 to August-2014

Pacific Northwest National Laboratory (US Department of Energy), Data Science and Analytics Group, WA, USA

- Data and Statistical Analysis for Time-Series data of an Infectious disease, with forecasting the number of cases with the Social Media, Weather and Historical Data
- Built the framework of backend Python Flask REST API and the frontend data-model with AngularJS, leading to a HTML5 mobile app and converting it into apps for all platforms including Android, iOS and Windows phones

Software Developer January-2010 to July-2013

Tata Consultancy Services. Ltd, Bangalore, India

- Designed and Implemented the System Architecture including Database design of an application for one of the largest US tax service provider – Ceridian Tax Services.
- Enhanced the product features of a Sub-System to comply with US regulation changes for one of the largest Credit Cards provider – CitiCards Services.
- Programmed Application responsible for the crucial functioning of Risk Management Systems for detecting fraud in Credit Card Services for a large CreditCards service provider – American Express Credit Card Services.

ACADEMIC PROJECTS

Machine Learning Classifier Evaluation for Breast Cancer Relapse Jan-2014 to May-2014

Evaluated Neural Network and Random Forest Classifiers for predicting breast cancer relapse with clinical and genomics data. Feature Selection and Parameter Tuning of the Classifiers to find optimal classifier for the Breast Cancer data.

Developing a Graph Database Platform for Drug Repositioning Jan-2014 to May-2014

Building and Designing Graph database with varied types of biological information like proteomics, genomics, drugs and diseases. In recognition of the innovations in the project, was awarded the most innovative project.

Statistical analysis of Mass Spectrometry Data Aug-2014 to Dec-2014

Data analysis of Mass Spectrometry Data with identification of the significant cleavage site of the amino acid peptides that were used to identify the proteins in mass spectrometry software.
