Kalyani Taru

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Technical Skills

Languages JAVA, J2EE, C, Perl, Shell Scripting, Python, JavaScript, HTML, CSS

Tools GCC, Eclipse, Git, Toad, Vim, Remedy, ClearCase, Linux OS

Databases Sqlite, Oracle DB, MySQL

Development Experience Machine Learning, Hadoop, Web Application, Web Application Security, Object Oriented Programming, Database Schema Design, Web crawler, Networking, Agile, ERP, Distributed System, Big Data, Amazon EC2, Algorithms, MapReduce, Multithreaded programming

Experience (4 years)

PTC - Parametric Technology Corporation (Java)
Software Developer - Product Lifecycle Management, Windchill (Jan 2014- Jan 2015)

- Contributed to developing version control modules of Windchill. It helps users to create new and multiple versions of the product. Worked on complex Design Patterns and OOPS techniques in Java.

Cybage Software (Java, Perl, sql)
Software Developer - Web Crawling and Web Security (Sep 2012- Jan 2014)

- **TravelClick** - Developed a Web Crawler in Perl to scrape and clean data from hotel websites and send it to web services. Contributed to developing the RESTful web service that analyzes the data and indexes it is using hotel rates, bed type, facilities using JOSN.
- **Athena Healthcare** - Analyzed and fixed web security issues like SQL Injection, Cross Site Scripting.

IBM Global Services (Java, J2EE, Perl, Sql)
Software Developer - CRM, Idea Telecom (May 2010- Sep 2012)

- Responsible for requirement gathering, planning, developing, unit testing and tracking the development and configuration changes before they go live in production.
- Developed web portals such as VMS and Barring and Unbarring services in Java, Perl and SQL. Developed the messaging system in multithreaded environment in java.

Academic Projects (Sep 2016 – May 2018)

Research on Stacking and Neural Network and Other standalone classifiers (Python)

- Implemented Stacking algorithm for 52 UCI datasets in python. Concluded that Neural network is better than Stacking, which in turn is better than standalone classifiers. Created Neural Network using Keras library in python.
- For Stacking, used five base classifiers: linearSVC, RandomForest, XGBoost, DecisionTree, NaiveBays and used a metaclassifier: logistic regression.

Flight Data Analysis (Java, Hadoop, MapReduce, Big Data)
Developed a solution using MapReduce on 2 TB of Data to find:

- The airlines with the highest and lowest probability for being on schedule.
- The airports with the longest and shortest average taxi time per flight and flight cancelation reasons.

Proxy Server (C)

- Implemented a Proxy server, using TCP/IP, supporting features such as bypassing filters and censorship, Content-control software, redirecting the request and TCP Error handling.

Linux kernel Programming (C)

- Modified parts of task structure in process management subsystem. Implemented buddy algorithm for memory management subsystem, hooked the interrupts and modified the file subsystem.

Education

NJIT (New Jersey Institute of Technology), New Jersey, USA (Class of May 2018)
Master of Science in Computer Science, GPA: 3.75/4.0

VJTI (Veermata Jijabai Technological Institute), Mumbai, India (Class of May 2010)
B.Tech in Information Technology