

# Sarath Kumar Prabhakaran

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## EDUCATION:

Illinois Institute of Technology, Chicago

M.S in Computer Science (GPA: 3.40/4)

(August 2015 - May 2017)

College of Engineering Guindy, Chennai

M.Sc. in Computer Science (GPA: 7.76/10)

(August 2010 - May 2015)

Core Courses: Design and Analysis of Algorithm, Data Structures, Enterprise Web Applications, Advanced Database Organization, Theory of Computation, Computer Networks, Software Modeling with UML, Data Warehousing and Mining.

## TECHNICAL SKILLS:

- Programming - C, C++, Java, Python, VB.Net, C#, Ruby.
- Web Technologies - HTML5, CSS3, JavaScript, AJAX, JQuery, PHP.
- Databases - Oracle 10g, MySQL, MongoDB.
- Automation Tools – Selenium, HP-QTP, Open Script, Synergy, Oracle Application Test Suite, Cucumber.
- Bug Tracking Tools – HP ALM/Quality Center, JIRA.
- Tools - MS Visio, MS Project, Eclipse, Visual Studio, MS Office, IntelliJ IDEA, Android Studio.
- **AREAS OF INTEREST:** Software Development, Web & Mobile Applications Development, Quality Assurance.

## PROFESSIONAL EXPERIENCE:

Illinois Institute of Technology, Chicago, Illinois

- Position: **Graduate Teaching Assistant** Course: **Software Modeling Dev with UML** (January 2016 – Present)
- Position: **Graduate Teaching Assistant** Course: **Enterprise Web Applications** (August 2016 – December 2016)
- Assisted students to learn technologies such as **Core Java, J2EE, SOAP, REST, Tomcat, JSP, Servlets, JavaScript, AJAX, Sessions/Cookies, JDBC, RMI, Multi-threading and UML** for the development of enterprise web applications, graded assignments and organized projects for students.

Oracle India Private Ltd, Bangalore, India

- Position: **QA Automation Intern - EIT** (December 2014 - April 2015)
- Position: **QA Automation Intern - RPOS** (June 2013 – November 2013)
- Automation Script Developer for the Unified Automation Program, Automation Framework developer for the Enterprise Integration Testing Team, designed and developed test plans, created and updated automation scripts in **VB.Net** and **Java** for Oracle Retail Products, Finding and Reporting Application Development Bugs.

## ACADEMIC PROJECTS:

- Empirical Analysis of Predictive Algorithms for **Collaborative Filtering**, constructing a **Social Network** using **Twitter Data**, **Community Detection** and **Link Prediction** using **Facebook 'Like' Data**, Categorizing Movie Reviews based on **Sentiment Analysis**, Content-based **Recommendation Algorithm** using Python.
- **Object oriented charting Dashboard** for data analytics and visualization for datasets using JavaScript.
- **Android apps** in several domains: Apps using Google Maps APIs like **Travelers Watch**, **Unforgettable Places**. Gamified apps like **Brain Trainer**, **Guess the celebrity** and utility apps like **Apple Clock**, **Currency Converter**, **Bluetooth device finder** and **Weather Application**, **To-do List** using Meteor.js and MongoDB.
- **Blogging Website** using Maven, Spark, Mongo DB and Free marker, **Game Speed Web Application**, **Restaurant reservation Web Application** using HTML, CSS, Servlets, JSP and MongoDB, **Friend finder Web Application** using Servlets, JSP, JavaScript, JQuery and MongoDB, **Online Theatre Management System** using Java & Oracle DB, Online placement Web Application using JSP, Servlet, HTML and MySQL, **Dijkstra's Algorithm**, **Database Joins** using Java.
- **Electronic Dictionary** using C++ that retrieves words stored using a **trie** data structure more efficiently.
- **Storage manager** that allows read/writing of blocks to/from a file on disk, **Buffer manager** that manages a buffer of blocks in memory including reading/flushing to disk and block replacement, **Record manager** that allows navigation through records, and inserting and deleting records, **two pass assemblers** for **SIC/XE** machine using C.

## CERTIFICATIONS:

- AWS Certified Solutions Architect-Associate (April 2017)
- AWS Certified Developer-Associate (April 2017)
- Complete Android Developer. (September 2016)
- Scrum Master. (June 2016)
- M101J: MongoDB for Java Developers. (February 2016)
- Web Component Development using Java Technologies. (October 2014)