

Shashank Maithani | Resume

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🌐 www.iShanks.com

Academics

- Masters, Computer Science** UNIVERSITY OF ILLINOIS AT CHICAGO **May 2019**
➤ **Applicable Coursework:** Visual Data Science, Information Retrieval and Distributed System for Cloud Computing.
- B.Tech, Computer Science** CHITKARA UNIVERSITY **June 2014**
➤ **Applicable Coursework:** Algorithms, Data Structures and Object-Oriented Constructs.

Technical Skills

- **Languages:** Java (JLS 1.8), Python, Scala, CSS, HTML, JavaScript, MySQL, Oracle
- **Technologies:** Git, Docker, Hadoop, Spark, OSv, AWS (S3, EMR, EC2, Lambda)
- **Libraries and Frameworks:** SVG, D3, Three.js, Pandas, Scikit-learn, Eclipse RCP

Work Experience

- Infosys Labs R&D - Senior Software Engineer** **June 2014 - July 2017**
- ✓ **Onsite Client:** Developed custom “web crawler” application for client’s mapping service using selenium drivers and Eclipse RCP which resulted in **25% Spike** of the onsite support team’s productivity via automation. Also implemented dynamic searching through hash-tables and ensuring data quality through debugging and writing test plans.
 - ✓ **iDSS: Increased** Infosys Labs business/clients by **10%** through developing and adding Data Profiling and Cleansing functionality to the tool being developed. Also improved the application’s performance through combination of multi-threading, batching and load distribution.
- Infosys Limited - Software Engineer Intern (Final Semester Internship)** **Jan 2014 - May 2014**
- ✓ **E-Learning Portal website:** Implemented Custom Priority Search Algorithm to better search for frequent visited courses which proved to be ~10% more efficient than the internal portal used within Infosys.

Projects

- Spark Page Rank** | Scala (Map/Filter/Reduce), Spark, AWS EMR **Mar – Apr 2019**
- ✓ PageRank values for authors and publications (i.e., book titles, journals) using the Spark model for parallel processing of the publication dataset. The application is then deployed onto [AWS EMR](#).
- Unikernel Chess OSv** | Java SpringBoot, Rest, OSv, Capstan, Docker, AWS EC2 **Feb – Mar 2019**
- ✓ A spring boot restful API calling an open-source chess game VAP using a unikernel OS and a containerization toolkit. The VAP is bundled in a JEOS (Just enough OS) and deployed onto [AWS EC2 and Docker](#).
- Hadoop Graph Generator** | Java/Scala, Hadoop, MapReduce, AWS EMR **Jan – Feb 2019**
- ✓ XML parsing using Hadoop's MapReduce Framework for parallel processing of DBLP dataset and generating a graphical network. The application is then deployed onto [AWS EMR](#).
- Search Engine** | Python, TF-IDF, NTLK, BeautifulSoup **Dec – Jan 2019**
- ✓ A Web Search-Engine consisting of a Spider which forms a web graph. Similarity measures are used to find the relevant Pages and the final ranking will be done using Google’s Page Rank model.
- Capillary Action** | JavaScript, HTML/CSS, SVG, D3, Three.js **Nov – Dec 2018**
- ✓ Simulating the trajectories of liquid molecules in [3-D capillary setting](#) which can aid in the construction of surfaces which sustain liquid-liquid contact but obstruct liquid-solid contact.

Accomplishments

SPOT Award, Individual Contribution Onsite – Infosys, June 2017 | Winner, Demon Hacks - MLH (DePaul) – Fall 2018