

RAHUL S AGASTHYA

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EDUCATION

Illinois Institute of Technology, Chicago, IL
Master of Computer Science

December 2019 (Expected)

Stony Brook University, Stony Brook, NY
Bachelor of Science, Computer Science

May 2018

COURSEWORK

- ♦ Data Structures
- ♦ Analysis of Algorithms
- ♦ Database Management
- ♦ Natural Language Processing
- ♦ Cloud Computing
- ♦ Software Engineering
- ♦ Computer Networks
- ♦ Machine Learning
- ♦ Artificial Intelligence

TECHNICAL SKILLS

- ♦ **Programming Languages:** Java, C, Python, Ruby, Perl, and C++.
- ♦ **Functional, Script and Logic based Languages:** SML, XSB Prolog, and JavaScript.
- ♦ **Frameworks:** Spring and JDBC (Java), Numpy, Scipy, Ply and Flask (Python), Rails (Ruby)
- ♦ **Other Concepts:** Git, Object Oriented Programming, Network Programming, Functional Programming.

PROFESSIONAL EXPERIENCE

Department of Computational and Data Sciences, Indian Institute of Science, Bengaluru, India.

Research Intern

Summer 2018

- ♦ Worked with the Machine and Language Learning (MALL) Lab of the Institution.
- ♦ Assisted in various research projects by providing a detailed insight on Query Languages on Graph Databases.
- ♦ Analysis of the functioning of various Graph Databases like *Gremlin*, *SPARQL* and *Cypher*.

Department of Computer Science, Stony Brook University, Stony Brook, NY.

Teaching Assistant

August 2015 – December 2016, August 2017 – May 2018

- ♦ Supervised about 25 Introductory Java Programming Course students.
- ♦ Helped the students in writing efficient programs.
- ♦ Assisted them with basic Java syntax, concepts of Object-Oriented Programming and JavaFX.

Infinera India Pvt. Ltd., Bengaluru, India.

Content Developer (Intern)

Summer 2015

- ♦ Project developed is currently used by the documentation department.
- ♦ Developed an application to translate RAML Schema files to HTML tables.
- ♦ Implemented the concepts of Object-Oriented Programming like Inheritance and Polymorphism.
- ♦ Used the String and String builder libraries available in Java to develop an efficient application.

PROJECTS

- ♦ **E-Census (In Progress):** Developing a rails application to provide for electronic means of gathering Census Data and improve the efficiency of the tabulation of data by the Census Board of India.
- ♦ **Election Redistricting:** Part of a team that developed a web-based application to redraw the election districts for the election to House of Representatives of the United States, using Java and Spring framework.
- ♦ **Backpackers:** Part of a team that developed a web-based application to clone the functionality of a flight reservation system like *Expedia.com*, using Java and the databases were handled using JDBC.
- ♦ **C.R.E.A.M. (Cache Rules Everything Around Me):** Developed a system level program to read and write data to cache memory, making the functions thread safe and handling the requests using a client-server model, using the C programming language and implementing concepts like Multithreading and Networking.
- ♦ **Dynamic Memory Allocator:** Developed a system level program in C to dynamically allocate heap memory of a Unix based Operating System, cloning the functionality of *malloc()*, *free()* and *realloc()* functions available in the C library.

REFERENCES

Dr. Paul Fodor (Assistant Professor)

Department of Computer Science
Stony Brook University
Email: pfodor@cs.stonybrook.edu
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Dr. Anshul Gandhi (Assistant Professor)

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