

# RAHUL S AGASTHYA

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## EDUCATION

### ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

MASTERS OF COMPUTER SCIENCE, (EXPECTED), DECEMBER 2019

- Artificial Intelligence
- Machine Learning
- Cloud Computing
- Computer Networks
- Natural Language Processing
- Software Development
- Data Preparation & Analysis
- Software Project Management

### STONY BROOK UNIVERSITY, STONY BROOK, NY

BACHELOR OF SCIENCE, COMPUTER SCIENCE, MAY 2018

- Object Oriented Programming
  - Data Structures
  - Analysis of Algorithms
  - Database Management
  - Software Engineering
  - Internet Programming
  - Scripting Languages
  - Social Network Analysis
  - System Architecture
  - Programming Languages
  - Theory of Computation
  - Basics of Data Science
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## SKILLS

- **Programming Languages:** Python, Java, C, C++, Ruby, Perl, SML, XSB Prolog, and JavaScript.
  - **Web based languages:** JavaScript, HTML, jQuery, XML and Ajax.
  - **Database languages and handling:** MySQL, PostgreSQL, SQLite, MongoDB, Ajax and Elastic-search.
  - **Frameworks:** Numpy, Scipy, Ply, Flask, BeautifulSoup, Pandas (Python), Rails (Ruby), Spring and JDBC (Java).
  - **Operating Systems:** Unix, Linux, Windows Command Line.
  - **Others:** Git, Object Oriented Programming, Network Programming.
  - **Undergraduate Fellow:** College of ITS, Stony Brook University - May 2015.
  - **The International Award for Young People - Bronze:** Duke of Edinburgh - March 2012.
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## PROFESSIONAL EXPERIENCE

### INTERN, MCAFEE SOFTWARE INDIA PVT. LTD. – SUMMER 2019

- Worked on an enterprise product called as 'ePolicy Orchestrator (ePO)', under Mr. Mahesh Manneppa.
- The internship focused on the automation of the content of various benchmarks that is used by the Policy Auditor, an extension of the ePO, to run audits in endpoint machines.
- Tasked also in the automation many of the processes, mostly in *Python*, for example generating and sending commands to Debian, RHEL and SUSE machines over a local network either to install, or to update, packages critical for the compliance of the machine, and collect the statistics for future reference.

### INTERN, INDIAN INSTITUTE OF SCIENCE, BENGALURU, INDIA – SUMMER 2018

- Worked with the Machine and Language Learning (MALL) Lab of the Institution under Prof. Partha Talukdar.
- Assisted in research projects by providing a detailed insight on Query Languages on Graph Databases.
- Functioning of Graph Databases like *Gremlin*, *SPARQL* and *Cypher* was analysed.

### TEACHING ASSISTANT, STONY BROOK UNIVERSITY, NY – AUG 2015 - MAY 2018

- Assisted Prof. Praveen Tripathi, Prof. Michael Tashbook, Prof. Kevin McDonnell and Prof. Paul Fodor.
- Supervised about 25 students of the Introductory *Java Programming* course.
- Helped the students in writing efficient code, and implement the concepts of *Java Programming* and *Object Oriented Programming*.

#### **INTERN, INFINERA INDIA PVT. LTD. – SUMMER 2015**

- Developed *Java* application to translate a RAML Schema files to HTML Tables and worked under Mr. Kasi Pyadi.
- Implemented the concepts of Object Oriented Programming like Inheritance and Polymorphism, and String, String Builder libraries to develop an efficient application.
- The Project is currently in use by the Documentation Department of the company.

#### **INTERN, INFINERA INDIA PVT. LTD. – SUMMER 2014**

- The project was a simple sorting algorithm in *Java* and worked under Mr. Yashpal Kumar.
- In the Network Element's Chassis view, when a new chassis is inserted into the rack, the chassis would not be sorted, and would appear haphazard.
- The objective of this project, was to achieve an algorithm that would sort the elements of a rack, whenever added.

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## **PROJECTS**

#### **TRUMPCULENT APPLICATION – APRIL 2016 - MAY 2016**

Part of a team that developed a *Java* application (using *Twitter4j* and *Tweebo Parser*) which takes a sentence from the user and converts into such a sentence which can be tweeted in a style of a famous celebrity.

#### **BACKPACKERS FLIGHT RESERVATION SYSTEM – AUG 2017 - DEC 2017**

Part of a team that developed a Web-based application (using *Java*, *JDBC* and *MySQL*) to clone the functionalities of a flight reservation system like expedia.com.

#### **ELECTION REDISTRICTING – JAN 2018 - MAY 2018**

Part of a team that developed a Web-based application (using *Java*, *Spring* and *MySQL*) to redraw election districts of the House of Representatives of the United States Congress, based on criteria including Political Fairness, Population and Compactness.

#### **ELECTRONIC MMP APPLICATION – DEC 2018 - JAN 2019**

Mixed Member Proportional Representation is a system of elections, that represent a Legislature in an accurate manner. In this system every voter gets two votes (one for a local representative and another for the political party). An application was developed first using *Java* and also using *Python* to enable such an election electronically, where users will be able to add/delete candidates or parties, voters will be able to cast votes and the results will be generated.

#### **CHICAGO SOCIAL HUB – JAN 2019 - MAY 2019**

Part of a team that developed (using *AngularJS*, *Python* and *PostgreSQL*) that helps users to find restaurants (searched by name, cuisine or franchise), sorted based on ratings and reviews, and for a selected restaurant, show the nearest bike docking stations with the status of each station shown.

#### **E-CENSUS APPLICATION (TO BE COMPLETED BY THE END OF 2019)**

This is an application under development (using *Ruby on Rails*) to provide for an electronic means of gathering information and improve the efficiency of tabulation of data by the Census Board of India.

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## **REFERENCES**

#### **Dr. Paul Fodor (Assistant Professor)**

*Department of Computer Science*  
Stony Brook University  
Stony Brook, NY.  
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#### **Mr. Mahesh Manneppa (Director)**

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