त्रयाणां देवानां त्रिगुणजनितानं तव शिवे ।
भवेत पूजा तव चरणयोर्या विरचिता ॥

# 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

## PROFESSIONAL EXPERIENCE

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

- Worked on an enterprise product called as 'ePolicy Orchestrator (ePO)'.
- 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, 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, INFINERA INDIA PVT. LTD. – SUMMER 2015

- Developed an application to translate a RAML Schema files to HTML Tables.
- 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.
- 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.

## RESEARCH AND TEACHING EXPERIENCE

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

- Worked with the Machine and Language Learning (MALL) Lab of the Institution.
- 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.

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

- Supervised about 25 students of the Introductory Java Programming course.
- Helped the students in writing efficient code, and implement the concepts of Java Programming.

## PROJECTS

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

Part of a team that developed (using AngularJS 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.

### 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, using Java and the Spring Framework.

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

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

## INDEPENDENT PROJECTS

### E-CENSUS APPLICATION (TO BE COMPLETED BY AUGUST 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.

### ELECTRONIC MMP APPLICATION – DEC 2019 - 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 using JavaFX 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.

## SKILLS

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

## AWARDS AND LEADERSHIP

- **Undergraduate Fellow**, College of ITS, Stony Brook University – May 2015.
- **The International Award for Young People - Bronze**, Duke of Edinburgh, March 2012.

## REFERENCES

**Dr. Paul Fodor (Assistant Professor)**
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Stony Brook University
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**Dr. Anshul Gandhi (Assistant Professor)**
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