Saahil Bhatia

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# Education

**Purdue University, West Lafayette, IN**

Bachelor of Science in Computer Science

***Expected August 2021***

# Relevant Coursework

# Data Structures and Algorithms, Data Mining, Statistics, Calculus I-III, Linear Algebra, Differential Equations

# Technical Skills

# Python, R, React.JS, JavaScript, HTML/CSS, SQL, C, C++, Java, MATLAB, Microsoft Office

# Current Projects and Studies

# Course Preference Registration Matching for teachers-scholars.org Jun 2021-present

# Lead the algorithm design team to match seminar preferences of 400 students to 36 seminars that have space minimums and maximums, while optimizing for both student placement and course filling.

# Wrote a program to solve this as a linear programming problem using Google’s Operations Research Tools.

# Currently working with the web team to create the front and back end of the registration website.

# Independent Projects

**SIR Modeling Coronavirus**

* Implement a simple Susceptible, Infected, and Recovered model and used linear algebra concepts to graph this model efficiently over 50 weeks

***Jul 2021***

**Stock Trading Bot**

* Developed a Python program to paper trade stocks based on MACD convergence-divergence in variable time frames

**Maze Solver**

* Employed an algorithm using stacks and queues to solve maze puzzles

**Regression** **and Predictive Analytics**

* Developed a Python program to perform regression on the populations of each county in Indiana using census data, and to graph future projections

***Feb 2021***

***Sep 2020***

***Jul 2019***

**Electric Motor**

* Designed and partiallyfabricatedan electric motor to mount on a bicycle

***Dec 2016 – Jun 2017***

**High School Robotics Team Captain**

* Led a team of 6 to the Georgia State TSA VEX championship semi finals

***Feb 2015 – May 2017***

**Minecraft Modifications**

* Created mods that added cannons, flags, and flaming swords to the game

***Dec 2014 – Jun 2015***

**Social Network**

* Constructed a basic social network using the ACM’s Java Task Force API

***Jul 2013***

# Work Experience

**Kumon of North Columbus, Columbus, GA**

**Center Assistant**

***Apr 2017 – Nov 2017***

* Tutored Middle and High Schoolers in Math and Reading
* Resolved inquiries of parents
* Answered phone calls in place of the Center Manager
* Performed data entry and paper organization