

Saahil Bhatia

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Education

Purdue University, West Lafayette, IN

Expected August 2021

Bachelor of Science in Computer Science

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

Jul 2021

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

Stock Trading Bot

Feb 2021

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

Maze Solver

Sep 2020

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

Regression and Predictive Analytics

Jul 2019

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

Electric Motor

Dec 2016 – Jun 2017

- Designed and partially fabricated an electric motor to mount on a bicycle

High School Robotics Team Captain

Feb 2015 – May 2017

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

Minecraft Modifications

Dec 2014 – Jun 2015

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

Social Network

Jul 2013

- Constructed a basic social network using the ACM's Java Task Force API

Work Experience

Kumon of North Columbus, Columbus, GA

Apr 2017 – Nov 2017

Center Assistant

- 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