Arvind Ramaswami

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Education

Chattahoochee High School: 2013-2017

Georgia Institute of Technology: 2017-2021
Major: Mathematics

Skills

- **Computer Science**
  - Languages: Python, Java, MATLAB, HTML, CSS, and Javascript. Basic experience in PHP/SQL.
  - Artificial Intelligence:
    - Completed Andrew Ng's Machine Learning course on Coursera based on MATLAB.
    - Currently taking the Deep Learning specialization from Coursera, based on Python.
    - Hopes to pursue a career in AI
  - Object-oriented Programming:
    - Taking CS 1331 (Intro to Object Oriented Programming) at Georgia Tech
    - Experienced with data structures like linked lists and binary search trees from HackerRank.
    - Learned Java through AP Computer Science
  - Web/mobile app development:
    - Currently learning Node.js and MongoDB Stanford's CS193X course (Web Programming Fundamentals)
- **Mathematics**
  - Represented team Georgia in ARML (American Regions Mathematics League) in 2015 and 2017.
  - Experience in number theory and combinatorics through math contests.
  - Courses taken at Georgia Tech:
    - MATH 2106 (Intro to Proofs): in progress
    - MATH 4802 (Mathematical Problem Solving): in progress
    - MATH 2551 (Multivariable Calculus)
    - MATH 1554 (Linear Algebra)
  - My problem solving skills, which can be useful in various science-related fields, arise from my interest in mathematics.

Projects

- **Science Bowl Application**
  - Helped create an application that simulates Science Bowl tournaments using the Ionic framework. This was an instructive experience in AngularJS (see https://outplayedapps.com)
- **Personal website**
  - Created a website showcasing my skills (a JS project is included)
- **Website to keep track of multiple users' comments**
  - Created the front-end for the website
  - This was a learning experience for PHP/SQL

Work and Volunteer Experience

- **Mobile Application Development**

- o Helped create an application that simulates Science Bowl tournaments using the Ionic framework. This was an instructive experience in AngularJS.
- **Java coaching**
  - o Assistant Java coach at Yes-M Systems
  - o Helped high schoolers to learn the basics of Java as an introduction to Computer science.
- **121 Reach**
  - o Went to Taylor Road Middle School twice a week to help middle school students with their homework and learning ahead.
- **Chinmaya Mission:**
  - o Volunteers for a nonprofit organization Chinmaya Mission Alpharetta in fundraising activities like the CORD (Center of Rural Development) Walkathons
  - o Went to Sidhbari, India in July 2017 with other members of this organization to help villagers with field work.

Leadership Experience

- **President of the Chattahoochee Math Team**:
  - o Prepared weekly lessons and problems to give to the other members of the club.
  - o Arranged teams and rides for tournaments.
- **Co-President of the Chattahoochee Science Olympiad:**
  - o Ran a yearly tournament for middle schoolers run by Chattahoochee High School.
  - o The Hooch Science Olympiad team is one of the top 15 in the nation.
  - o Tasks: Preparing placement tests, planning for future tournaments, putting people in the current events for tournaments
- **Musical leadership:**
  - o Experience as a former section leader for 2nd violin in the Chattahoochee High School orchestra
  - o Orchestra Vice President in ArtReach, a club in which people play music for senior citizens
  - o Tasks in ArtReach: Arranging music for orchestra members to play, sending emails for meeting recaps and reminders, being a conductor during the events