Rishabh Swarnkar

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Professional Summary

I am currently a student at the University of Illinois at Urbana-Champaign pursuing my education in computer science and mathematics. I spend time outside of academics teaching younger students fundamentals of programming, participating in community service, and performing at musical events. I am looking for opportunities to gain practical experience to fulfill my career and academic goals in software engineering and data science.

Experience

Code Coach
theCoderSchool, Cupertino, CA, July 2016 - December 2016
-Spent 10+ hours per week teaching programming fundamentals to elementary, middle, and high school students in a private after-school program.
-Helped groups of students develop their own web and mobile applications, and worked with them on presenting these at quarterly "Coder Fairs".
-Platforms taught: Java, Python, JavaScript, HTML/CSS, Scratch (project from MIT Media Lab) and Snap! (formerly BYOB, an extended reimplementation of Scratch from UC Berkeley)

Teaching Assistant
Math Enrichment Summer Camp, San Jose, CA, June 2013 - July 2015
-Helped create lesson plans for Pre-Calculus classes, and generate monthly report cards for families.
-Communicated weekly with parents and students to optimize progress and ensure conceptual understanding.
-Provided one-on-one and group tutoring sessions for Algebra, Geometry, and Pre-Calculus after school to keep students up to speed.

Projects

FlickFilter
-Built a movie-filtering program which provides up-to-date rankings for movies based on popularity, rating, and genre.
-Uses HTTP get requests to accumulate and parse JSON data, facilitated by use of Gson dependency.

WordSorter
-Lexicographically sorts a given array of Strings through Bubble Sort, Insertion Sort, Mergesort, and Quicksort.
-Depicts efficiency of each sorting algorithm, showing the various big-O time complexities.

Education

B.S., Computer Science and Mathematics
University of Illinois at Urbana-Champaign • Champaign, IL • May 2019 (Expected) • 3.46 GPA

Skills

Java • C++ • **Python** • JavaScript • **HTML/CSS**