AVIK JAIN

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Student developer with experience using algorithms in educational, competitive, and practical environments.

Skills

PROGRAMMING LANGUAGES

Java
Python
HTML/CSS
JavaScript
Node.js
MATLAB

TEST SCORES

AP Computer Science: 5
AP Calculus BC: 5
AP Chemistry: 5
ACT: 36
AMC 10: 126
AIME: 6

Education

Monta Vista High School
Completed AP Calculus BC and AP Computer Science as a sophomore, currently pursuing more advanced math at De Anza Community College.

Experience

MV WebDev Club   Monta Vista High School
Director of Technology   August 2015 to Present
Created new member portal with Node.js, created curriculum for, and taught full-stack web development.

MathAndCoding   Bay Area
Program Leader   January 2016 to Present
Led workshops teaching introductory problem solving and programming with Java and Python to over 150 students. Received Presidential Service Award for over 100 hours of service.

Projects

fbash   April 2016 to June 2016
A command-line tool which allows developers to access their command-line remotely through Facebook Messenger and provides additional utilities for collaboration and development. Installed over 3,000 times through NPM.

SwiftAssist   February 2016
A cross-platform application which leverages crowd-sourcing for rapid emergency response. I built the Android and Pebble applications.

Flappy Nerd   July 2015
A Flappy Bird-based game which takes advantage of its addictive nature to assist the user in studying effectively using data queried from Quizlet. I programmed the game physics and graphics. Built with Quizlet API and Java.

MV JSA Member Portal   July 2016 to Present
A member portal and moderated blogging platform for Monta Vista Junior State of America, which allows members to track activities and submit richly-formatted blog posts to officers for review and publication. Built with Node.js and MongoDB.

Awards

SMHacks · 1st Place   January 2017
My team submitted DMS, an application which allows users to wager money on todo list items; the money is returned to them upon completion, or donated to a charity upon failure. I built a Redux state machine to manage the web app's front-end state.

USA Computing Olympiad · Platinum Division   December 2016
I wrote efficient solutions for a series of timed algorithmic programming problems involving graph theory, combinatorics, and dynamic programming to progress to the highest competitive division, and analyzed time complexity in regard to input sizes to determine how successfully algorithms would run given time constraints.

Los Altos Hacks · Best Use of Microsoft Technologies   February 2016
My team submitted SwiftAssist (see above) and was also an overall finalist.

American Invitational Mathematics Exam · 2-time Invitee and Competitor   2015
I was invited to participate in the competition based on my performance on the AMC 10.

CU Hacks · 2nd Place   July 2015
My team submitted Flappy Nerd (see above) in the Education category.

California DECA Career Development Conference · 2nd Place   2015
I competed in the ENPI Individual Entrepreneurship event in my freshman year, one of the most competitive at the time, and qualified for the international competition in Orlando.