

Santi Santichaivekin

jsantichaivekin@hmc.edu • github.com/ssantichaivekin • Mobile : 347-401-3715

Education

Harvey Mudd College

B.S. in Computer Science, Major GPA 4.00 (Cumulative GPA 3.60)

Claremont, CA

Class of 2021

Coursework

In progress: Data Structures and Program Development; Multivariable Calculus

Completed: Intro to CS (Advanced); Computability and Logic; Calculus (Advanced); Probability and Statistics; Linear Algebra; Differential Equations

Skills

Proficient : C++, Python | Knowledgeable: C#, C, Ruby, Java, JavaScript, Bash, Linux, R, web development

Experience

Software Engineer Intern, *Microsoft*, Bellevue, WA

May 18 - Jul 18

- Implemented an event queue that performs layout calculations in the background across multiple frames in C#. This makes complex visual transitions in Microsoft Whiteboard application smoother.

CS Tutor/Grader, *Harvey Mudd College*, Claremont, CA

Jan 18 - Present

- Tutor and grade Computability and Logic class which teaches logic, automata, and computability theory.
- Tutored and graded CS For Insight class which focused on scripting and using python libraries for everyday tasks such as file management, web-scraping, machine learning, and HTML generation. Used Python.

Team Leader, *Thailand National Software Contest 2016*, Bangkok, Thailand

Jan 16 - Jul 16

- Arranged monthly meetings for 3-person team and headed application development.
- Designed a system for Thai word segmentation using maximum dictionary matching and exhaustive search in JavaScript.
- Deployed a web application to analyze the rhythm and sound of Thai poems using the international phonetic alphabet.

Member, *Bodindecha School Robotics Team*, Bangkok, Thailand

Jan 14 - Oct 16

- Implemented algorithms for robot movement in C and C++.
 - Designed communication protocol for robot interactions via Bluetooth.
 - Practiced weekly and competed in local competitions.
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Personal Projects

Text to Color Tone (github.com/ssantichaivekin/text-to-color-tone)

May 18 - Jul 18

- Used Google Custom Search API and k-nearest neighbor algorithm to find a color tone of any text and display it on screen using matplotlib python library.
- Computed the color tone of different word category such as adjectives, nouns, verbs, words that start with "a", and words with first vowel sound "ow", using NLTK dictionary to group words and Digital Ocean cloud server to download images and perform calculations.

IPython Chemistry Calculator (github.com/ssantichaivekin/chem-calculator)

Feb 18 - May 18

- Developed a small python library to help with chemistry calculations. The project uses regular expression to read chemical formulas and BeautifulSoup to scrape Wikipedia for mass and thermodynamics data.
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Honors and Awards

5th place in ACM-ICPC Contest SoCal Region, 2017

1st place in Harvey Mudd College Microsoft Coding Competition, 2017

Hobbies

Competitive Programming, Unicycling, Drawing, Painting, Subtitling Educational Videos.