Phuc Le

Junior at Cypress Woods High School

Contact

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Interests

Machine Learning | **Computational Biology** | **Neuroscience** | **Competitive Programming** | **CS**

Education

- Cypress Woods High School — *Cypress, TX* (Aug 2018 - Jun 2022)
  - **GPA:** 6.800/6.000
  - **Class Rank:** 12/768
  - **Coursework:**
    - ➢ **9th** Geometry Honors, Health/PACE, Human Geography AP (4), English I Honors, Spanish III Honors, Computer Science I Honors, Biology I Honors
    - ➢ **10th** Algebra II Honors, World History AP (5), Physics I AP (5), Chemistry I Honors, English II Honors, Computer Science AP A (5), Robotics I
    - ➢ **11th** English III AP, US History AP, Pre-Calculus Honors, Statistics AP, Computer Science III Honors, Chemistry AP/Dual, Physics II AP/Dual
  - **Standardized Testing:**
    - ➢ **SAT**: March 2021 - **1600** (800 Math, 800 Reading)
    - ➢ **PSAT**: January 2021 - **1480** (760 Math, 720 Reading)

Skills

- **Software:**
  - **Proficient:** Java, Python
  - **Familiar:** JavaScript, C++, C#, HTML/CSS, Git
- **Languages:** Fluent in English, Conversational proficiency in Vietnamese
- **Experience:** Microsoft Office Suite, Basic knowledge of Machine Learning

Honors and Awards

- **UIL Computer Science** (2018 - 2021)
  - Won and placed in several local competitive programming competitions, hosted by both local high schools and the University Interscholastic League of Texas.
- **United States of America Computing Olympiad** (2021)
  - Online competitive programming competitions with global contests held every month in the Spring. I am currently in the Silver division.
- **HP Code Wars** (2020 - 2021)
  - Annual competitive programming competition, hosted by HP Enterprises. I've competed in this competition twice, and have placed in the top 10 of over 250 teams both times.
- **AP Scholar with Honor** (2020)
  - Awarded to students who scored a three or higher on four or more exams. I scored a five on three exams (Physics I, World History, CS), and a four on one (Human Geography).
- **Distinguished Honor Roll** (2016 - 2020)
  - Awarded to students who achieved all A's. I have received this award every year since I first came to the United States.

- **Most Outstanding Achievement in Computer Science I Honors** (2019)
  - Awarded for the placing at the top of my class in *Computer Science I* among ~200 students, at Cypress Woods High School.

Activities

- **Computer Science Club** — *Member* (2018 - Present)
  - In the club, I learn data algorithms and strategies from my seniors, and regularly compete in various regional competitions, as well as in the statewide UIL meets. I also occasionally help teach newer members concepts that I have learned.
- **Science Olympiad Club** — *Member* (2019 - Present)
  - I studied various topics relating to Science Olympiad events and used what I learned to compete at regional competitions. At these competitions, I mainly focused on events relating to biology and Computer Science.
- **Interact Club** — *Event Coordinator* (2018 - Present)
  - I volunteered at service projects in the local community. As event coordinator, I was responsible for finding these projects and events, communicating to the volunteer coordinators, and sharing the events with our members.
- **Math Club** — *Member* (2019 - Present)
  - I learned new math concepts and applied them to competitive mathematics, including UIL and the AMC.
- **Cinema Club** — *Co-founder, Treasurer* (2020 - Present)
  - We watched movies and analyzed the technical aspects of filmmaking, such as the effect of CGI, lighting, and more. As club treasurer, I was in charge of the club's financial account and expenditures.
- **Kattis** (2019 - Present)
  - An online judging platform with a large database of competitive programming problems and open sourced contests held frequently. I am currently in the top 30 in the state of Texas.

Projects

- **Guitar Hero Project** (Jan 2021)
  - Using Java, I recreated the popular *Guitar Hero* game. Players can choose between playing notes manually through keyboard input, or allowing the computer to play songs automatically. The program has a set of preloaded songs; however, players can pick any song from here, and the program will work. For graphics and audio, I used the Standard Libraries from Princeton University.
  - For more information, check here: https://github.com/Jakl3/Guitar-Hero-Project
- **Tag Cloud Project** (Nov 2020)
  - Using Java, my partner and I created a program that scrapes the HTML of any website given and generates a word cloud based on its contents. The sizing of each word is determined by the tag(s) that the word is enclosed by, as well as the number of times it appears on the website. The word cloud is optimized to display the largest words in the center, and ensure that no words overlap each other when it is displayed.
  - For more information, check here: https://github.com/Jakl3/Tag-Cloud-Project

References

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