

# Patrick Cao

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## Education

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### University of Maryland, College Park

CANDIDATE FOR B.S. IN COMPUTER SCIENCE  
University Honors

College Park, MD  
Class of 2022

### Thomas Sprigg Wootton High School

HIGH SCHOOL, GPA: 4.00/4.00

Rockville, MD  
Class of 2018

## COURSEWORK

**Math** AP BC Calculus, Multivariable Calculus and Differential Equations, AP Statistics  
**Computer Science** AP Computer Science A, Advanced Programming (Data Structures, Algorithms, Intro to C)  
**Other** AP Physics C: Mechanics, E&M, AP Chemistry, Applied (Engineering) Science, AP Psychology

## Experience

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### Institute for Bioscience and Biotechnology Research

DEVELOPER INTERN

Rockville, MD  
June 2017 – Aug 2017

Refactored the Biological Macromolecule Crystallization Database

- Migrated site to Laravel framework
- Worked with MySQL and PHP to improve database data collection process
- Developed algorithm to identify chemical reagent names from plaintext

## Skills

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**Languages** Java, Python, PHP, HTML/CSS, JavaScript, NodeJS  
**Frameworks** Laravel, Express, React, Bulma  
**Other** MySQL, MongoDB, RethinkDB, Pug

## Projects

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See more at <https://prcao.github.io/>

### Listen Together

A web application that allows users to view, request, and vote on music in real-time.

<https://github.com/prcao/listen-together-react>

NodeJS, Express, React, RethinkDB, Bulma, Socket.IO

### Endgame

A feature-rich, bullet-hell inspired 2D Java game  
Java, Java.awt

<https://github.com/prcao/endgame>

## Accomplishments

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### AWARDS

**1st Place,** Lockheed Martin Code Quest Regionals, Novice Division  
**Runner-up,** Bitcamp Decentralize Everything: Blockchain challenge

April 2017  
April 2018

### HONORS

**State Merit Scholastic Award,** Top 5% of graduating class  
**Certificate of Meritorious Service,** Over 260 community service hours

May 2018  
May 2018