

# Patrick Cao

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## Education

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### University of Maryland, College Park

CANDIDATE FOR B.S. IN COMPUTER SCIENCE, GPA: 4.00

University Honors

College Park, MD

Expected Graduation 2021

### Thomas Sprigg Wootton High School

HIGH SCHOOL, GPA: 4.00

Rockville, MD

Class of 2018

## COURSEWORK

<b>Math</b>	Multivariable Calculus and Differential Equations, Intro to Linear Algebra, Applied Probability and Statistics
<b>Computer Science</b>	Advanced Programming (Data Structures, Algorithms, Intro to C), Intro to Computer Systems, Discrete Structures
<b>Other</b>	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

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

Rockville, MD

June 2017 – Aug 2017

## Skills

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<b>Languages</b>	Java, Python, PHP, HTML/CSS, JavaScript, NodeJS
<b>Frameworks</b>	Laravel, Express, React, Bulma, Bootstrap
<b>Other</b>	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

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

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

### 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

April 2017

**Runner-up,** Bitcamp Decentralize Everything: Blockchain challenge

April 2018

### HONORS

**State Merit Scholastic Award,** Top 5% of graduating high school class

May 2018

**Certificate of Meritorious Service,** Over 260 community service hours

May 2018