# Patrick Cao

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## Education

**University of Maryland, College Park**                                    *College Park, MD*
CANDIDATE FOR B.S. IN COMPUTER SCIENCE                                              *Class of 2022*
University Honors

**Thomas Sprigg Wootton High School**                                       *Rockville, MD*
HIGH SCHOOL, GPA: 4.00/4.00                                                          *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

**Institute for Bioscience and Biotechnology Research**                     *Rockville, MD*
DEVELOPER INTERN                                                            *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
See more at https://prcao.github.io/

**Listen Together**
A web application that allows users to view, request, and vote on music        *https://github.com/prcao/listen-together-react*
in real-time
*NodeJS, Express, React, RethinkDB, Bulma, Socket.IO*

**Endgame**
A feature-rich, bullet-hell inspired 2D Java game                              *https://github.com/prcao/endgame*
*Java, Java.awt*

## Accomplishments

### 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 class | *May 2018* |
| **Certificate of Meritorious Service,** | Over 260 community service hours | *May 2018* |