

Patrick Cao

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Education

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, Intro to Linear Algebra
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

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

Languages Java, Python, PHP, HTML/CSS, JavaScript, NodeJS
Frameworks Laravel, Express, React, Bulma, Bootstrap
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 in real-time

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

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

Endgame

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

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

Accomplishments

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