Patrick Cao

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Education

Thomas Sprigg Wootton High School *Rockville, MD*
HIGH SCHOOL, GPA: 4.00/4.00 *Class of 2018*

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

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 *Class of 2018*
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
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*