Patrick Cao

Gaithersburg, MD • patrickrcao@gmail.com • (301) 792-4810 • https://prcao.github.io/

Education

University of Maryland, College Park *College Park, MD*
CANDIDATE FOR B.S. IN COMPUTER SCIENCE, GPA: 4.00 *Class of 2021*
University Honors, Recipient of President's Scholarship

COURSEWORK

Math	Multivariable Calculus and Differential Equations, Intro to Linear Algebra, Applied Probability and Statistics
Computer Science	Advanced Programming (Data Structures, Algorithms, Intro to C), Intro to Computer Systems, Discrete Structures
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, reducing runtime from ~48 hours to ~3 hours
- Developed algorithm to identify chemical reagent names from plaintext

Skills

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

Projects

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

Listen Together *https://github.com/prcao/listen-together*
Used Node.js, Express.js, React, and MongoDB to construct a web application that allows
users to view, request, and vote on music in real-time
(NodeJS, Express, React, MongoDB, Bootstrap, Socket.IO)

Endgame *https://github.com/prcao/endgame*
Built a 2D game engine with Java and used it to implement a feature rich rpg shooter
(Java, Java.awt)

Awards

Winner,	Capital One Best Financial Hack, Equals-Equals Hackathon	*March 2019*
Runner-up,	Bitcamp Decentralize Everything: Blockchain challenge	*April 2018*
1st Place,	Lockheed Martin Code Quest Regionals, Novice Division	*April 2017*

Activities

Taiwanese American Student Association *October 2018 – Present*
JUNIOR OFFICER
- Manage development of website and app of Intercollegiate TASA's 2020 East Coast Conference
- Organize, coordinate, and promote TASA events