Justin Donn
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EDUCATION

University of California, Berkeley | Berkeley, CA — Expected June 2021
Bachelor of Science in Electrical Engineering & Computer Science — **GPA:** 3.53

The College Preparatory School | Oakland, CA — August 2014 - June 2017
- Recipient of NVIDIA Corporation National Merit Scholarship Award 2017
- Cumulative **GPA:** 3.77, **ACT:** 36, **SAT II Math:** 800

Notable Coursework: CS - Data Structures, Structure and Interpretation of Computer Programs, Principles and Techniques of Data Science*, Efficient Algorithms and Intractable Problems*; **EE** - Designing Information Devices and Systems I; **Math** - Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations; **Other** - Chemical Structure and Reactivity, Organic Chemistry Lab, Introduction to Biomedicine for Engineers, Engineering Molecules I*
* to be taken in Spring 2019

PROJECTS

Bear Maps | *Java* — April 2018
- Implemented back-end code for a web server that hosts a map application with functionality similar to Google Maps
- Designed functions that rasterize and arrange map images based on a user's current display location and zoom level
- Parsed real-world data from XML files provided by OpenStreetMap and converted it into a Java graph for improved accessibility
- Used the A* search algorithm to calculate and display the most efficient route from a user's provided start and end points

Predictive Yelp Reviews | *Python* — September 2017
- Used the Google Maps API, Yelp Dataset, and basic machine learning algorithms to organize restaurants by ratings and location
- Predicted a user's ratings for unvisited restaurants based on inputted parameters and keywords from other users' reviews
- Composed a location-based preference prediction algorithm, choosing the best restaurants within a desired range from a user

Webcam Object-Tracking Program | *Java* — April 2017 – May 2017
- Converted the video feed received by laptop webcam to a 2D array of Pixel objects with Princeton's StdDraw API
- Captured and saved the initial background image to be referenced later in the program via object-oriented programming
- Compared RGB values of each Pixel object of a real-life object to the background image to detect movement
- Highlighted said object with an overlaid drawn-in box which followed the object when/if moved

EXPERIENCE & LEADERSHIP

eSports Club, The College Preparatory School | Oakland, CA — August 2015 – June 2017
Co-President, Event Planner
- Created agendas for weekly meetings and planned monthly eSports-related events such as LAN parties and viewing parties
- Delegated officers to execute various tasks and assumed responsibility for completing them myself if not done otherwise
- Announced upcoming events and advertised fundraising for the club at weekly school-wide assemblies
- Expanded an initially three-person club to include over 50 students in the span of two years through assembly announcements

BMC Elementary Summer Program, UC Berkeley | Berkeley, CA — June 2018 – July 2018
Teacher's Assistant, Tutor
- Assisted elementary school students with learning abstract math concepts, including game theory and hypercubes
- Completed administrative duties like printing out problem sets and organizing the room before and after lesson hours
- Reached out to students' parents via email to resolve any concerns or to update them on their child's progress
- Collected student data via surveys and organized it with Excel for future use by the head of the program

The Partners Program, The College Preparatory School | Oakland, CA — October 2015 – May 2017
Volunteer Mentor and Tutor
- Tutored inner-city Oakland middle school students in a one-on-one atmosphere in math, science, and history
- Mentored students to develop strong study habits by encouraging them to set measurable goals
- Established strong academic and personal relationships with students and acted as a dependable role model
- Worked closely with the head of the Partners program to guide summer training sessions for new volunteers

SKILLS AND INTERESTS

Language: English (native language), Mandarin (second language)
Technical: Python, Java (proficient); HTML/CSS, JavaScript, Scheme (moderate); SQL, XML (familiar)
Computer: Adobe Photoshop & Illustrator; Microsoft Word, Excel, & PowerPoint; Git
Interests: PC Gaming, Professional eSports, League of Legends, Overwatch, Piano, Golf, EDM, Urban Dance