

Justin Donn
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EDUCATION

University of California, Berkeley | Berkeley, CA
Bachelor of Science in Electrical Engineering & Computer Science, GPA: 3.53

Expected June 2021

The College Preparatory School | Oakland, CA

August 2014 - June 2017

- Recipient of NVIDIA Corporation National Merit Scholarship Award 2017

Notable Coursework: Data Structures, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations

PROJECTS

Bear Maps | *Java*

- Used the A* search algorithm and Dijkstra's to build the backend for a map application similar to Google Maps
- Converted real world data from OpenStreetMap into a graph for A* and Dijkstra's to be executed on
- Implemented a search suggestion algorithm with a trie to autocomplete destination inputs
- Built a web server that hosts some endpoints that take in parameters and provide output in JSON

Predictive Yelp Reviews | *Python*

- Used the Google Maps API and basic machine learning algorithms to organize restaurants by ratings and location
- Predicted a user's ratings of unvisited restaurants with user parameters and other users' reviews
- Implemented a location-based preference prediction algorithm, choosing the best restaurants within a desired range

Webcam Object-Tracking Program | *Java*

- 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

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 to guide summer training sessions for new volunteers

SKILLS AND INTERESTS

Language Skills: Fluent in conversational Mandarin

Programming Languages: Python, Java, SQL, Scheme

Computer Skills: Adobe Photoshop & Illustrator; Microsoft Word, Excel, & PowerPoint

Interests: Piano, Golf, PC Gaming, League of Legends, Professional eSports, EDM, Urban Dance, Ramen