JUSTIN DONN
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2225 Blake Street, Apt. 4 | Berkeley, CA 94704

EDUCATION

University of California, Berkeley Expected May 2021
Major: Bachelor of Science in Electrical Engineering & Computer Science (EECS) **GPA:** 3.5
Intended Minor: Bioengineering

The College Preparatory School, *top 5 private high school nationwide* 2014 - 2017
- Recipient of NVIDIA Corporation National Merit Scholarship Award 2017
- Unweighted **GPA:** 3.8, **ACT:** 36, **SAT II Math:** 800

Notable Coursework: CS – Data Structures, Principles & Techniques of Data Science, Efficient Algorithms & Intractable Problems, Artificial Intelligence, Database Systems, Machine Structures
EE – Designing Information Devices & Systems
Math - Discrete Math & Probability Theory, Linear Algebra & Differential Equations
Other – Organic Chemistry (+ Lab), Biomedicine for Engineers, Engineering Molecules

EXPERIENCE & LEADERSHIP

Software Development Engineer Intern | Amazon Lab126 Summer 2019
Tablet Software - SystemUI
- Developed and improved features for the Amazon Fire Tablet, directly impacting user experience (i.e. lock screen & status bar)
- Achieved a critical production milestone by consistently delivering feature enhancements and resolving ~25 bugs on time
- Refactored legacy code into a standalone application which improved both code manageability and overall device performance
- Researched and documented the logic flow for downloading and cycling through wallpapers on the lock screen

Cal Hacks 5.0 | Hackathon hosted by UC Berkeley November 2018
- Built a Raspberry Pi-hosted server serving a webpage with group messaging functionality with WebSocket, PHP, and shell script

Teacher's Assistant/Tutor | UC Berkeley Summer 2018
BMC Elementary Summer Program
- 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

PROJECTS

Poker Website | *Python, HTML, CSS, JavaScript* January 2019
- Created a poker website hosted on a Raspberry Pi from the ground up that allows my friends and I to play poker online
- Delegated tasks between two friends and myself, collaborating to overcome obstacles like merge conflicts and redundant code
- Coded game logic in Python and utilized Deuces, a Python poker hand evaluation library, to determine the winning hand(s)
- Implemented a clean, simple user interface with HTML5, CSS3, and Javascript/JSON, with inspiration from bluffave.com

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

SKILLS AND INTERESTS

Language: English (native language), Mandarin (second language)
Technical: Python, Java, Android Development, C (proficient); HTML5/CSS3, JavaScript, SQL, XML (moderate)
Computer: Adobe Photoshop & Illustrator, Microsoft Office, Git, Linux (Ubuntu)
Interests: <u>Hobbies</u>: Urban Dance, Piano, Golf, EDM (music), Cars; <u>TV/Movies</u>: *Inception*, *The Prestige*, *The Grand Tour, Fast & Furious* series; <u>Gaming</u>: League of Legends, The Witcher III, Overwatch