Mazin Abubeker

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EDUCATION

University of California, San Diego   **Graduation: June 2020**
Bachelor of Science | Computer Science

PROJECTS & RELEVANT EXPERIENCE

Audio Analyzation and Visualization App   **San Ramon, CA**
Personal Project   March 2018 – June 2018
- Utilized fast Fourier transform to sample music or microphone input over small buffer sizes, indexing the frequencies and their respective amplitudes for beat detection
- Developed analyzation software in JavaScript to create visualizations that react to the intensity of specific frequency ranges, such as spectrograms and dynamic particle effects
- Built an API that allows for ease of creation of different visualizations

Silicon Hacks   **Fremont, CA**
Project Lead   May 2017
- Created an android application to help adventurous users find crowdsourced niche activities and locations to explore locally
- Applied Google Maps and Geolocation APIs to provide real time location data to users
- Implemented tracking system to record progress for bike rides, hikes, and other activities

Diablo Valley College   **San Ramon, CA**
Math and Computer Science Tutor   August 2016 – June 2018
- Taught students in mathematical subjects ranging from Trigonometry to Multivariable Calculus and Differential Equations
- Assisted computer science students in algorithm design and data structures, and consolidated pivotal concepts in its theoretical and real-world applications

SKILLS & STRENGTH

Programming Languages: C++, Java, Python, HTML5, CSS, JavaScript
Frameworks: ReactJS, NodeJS, jQuery
Operating Systems: Windows, Mac OS, Linux
Languages: English, Fluent Arabic

VOLUNTEER EXPERIENCE

Habitat for Humanity   **Martinez, CA**
Builder   April 2015 – June 2015
- Assembled steel water pipe structures and set wooden foundations on sites such as the Muir Ridge Development site that erected a 14-home complex for those in need

City Lights Volunteer Program   **San Ramon, CA**
Event Coordinator   November 2014 – May 2016
- Helped organize various community-wide events such as 5K marathons and park maintenance and clean up