

# Mazin Abubeker

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## EDUCATION

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**University of California, San Diego**  
*Bachelor of Science | Computer Science*

**Graduation: June 2020**

## PROJECTS & RELEVANT EXPERIENCE

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### 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

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**Programming Languages:** C++, Java, Python, HTML5, CSS, JavaScript

**Frameworks:** ReactJS, NodeJS, jQuery

**Operating Systems:** Windows, Mac OS, Linux

**Languages:** English, Fluent Arabic

## VOLUNTEER EXPERIENCE

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### 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