

# Mazin Abubeker

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## EDUCATION

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### University of California, San Diego

*Bachelor of Science | Computer Science*

**Graduation: December 2020**

- Geometric Computer Graphics
- Theory of Computation
- Algorithm Design and Analysis
- Digital System Components and Design
- Introduction to Cryptography
- Advanced Data Structures
- Software Engineering
- Statistical Methods

## RELEVANT EXPERIENCE

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### Software Engineering Intern – GSVlabs

**San Mateo, CA** June 2019 – October 2019

- Developed an end-to-end entrepreneur mentorship platform for King Saud University in a \$50k contract
- Created and employed efficient HTML, JavaScript, and CSS methodology to achieve a responsive yet elegant reproduction of GSVlabs' proprietary software, Passport
- Collaborated with the GSVlabs engineering and enterprise innovation teams daily through agile development

### Mathematics Tutor – Diablo Valley College

**San Ramon, CA** August 2014 – September 2018

- Worked as a tutor for my college and taught numerous students in subjects ranging from Trigonometry to Multivariable Calculus, Differential Equations and Linear Algebra
- Assisted computer science students in algorithm design and data structures, and helped physics students in consolidating pivotal concepts in thermodynamics and electromagnetism

### 3D Projection – Personal Project

September 2019 – November 2019

- Utilized the perspective projection of a points onto a 2D plane to render 3D models in vanilla JavaScript
- Implemented transformations such as rotation and skew to modulate the points' positions according to user input
- Created an interface illustrating examples with perlin noise maps and 3D function graphing using a JavaScript canvas and overlaying CSS

## SKILLS & STRENGTH

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**Skills:** End-to-end web development, functional and performant UI/UX with vanilla JavaScript and CSS

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

**Frameworks:** ReactJS, NodeJS, jQuery

**Languages:** English (Native), Fluent Arabic

## VOLUNTEER EXPERIENCE

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### Habitat for Humanity – Volunteer Builder

**Martinez, CA** 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 – Volunteer

**San Ramon, CA** November 2014 – May 2016

- Helped organize various community-wide events such as 5K charity marathons and park conservation events