

# Salwa Bukhari

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## EDUCATION

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### University of Utah / 3.59 GPA

*Bachelor of Science Computer Engineering*

*Deans List Spring 2017-Spring2018*

Salt Lake City, UT

*Jan 2017 – Dec 2021*

**Courses:** Object-Oriented Programming, Data Structures & Algorithm, Computer Systems, Software Practice I, Computer Design Lab, Digital Systems Design, Computer Organization, Micro Devices

## TECHNICAL SKILLS

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**Languages:** Java, C, C#, MySQL, HTML/CSS, MIPS,x86 Assembly, Verilog HDL.

**Developer Tools:** Git, Google Cloud Platform, Visual Studio, Eclipse, Visual Studio Code, Quartus

## PROJECTS

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### 16-Bit CPU with Chess Application

Fall 2019

- Designed and built a 16-bit CPU using **Verilog HDL** and a **DE1 SoC** for our CR16 assembly
- Created a chess application using the DE1 SoC and VGA to display a chessboard and pieces

### Music Tone Generator

Spring 2019

- Designed a MTG using **Verilog HDL** and **DE10-Lite** to play Hebanara

### Agar.io Recreation

Spring 2019

- Recreated Agar.io using **C#**, **MVC** and client-server model to play single or multiplayer
- Designed the database using textbfSQL to store player information and display them to a web client

### Spreadsheet Project

Spring 2019

- Created a spreadsheet using **C#** and MVC architecture to function similarly to Excel
- Designed the spreadsheet to perform basic arithmetic and lookup operations to store and compute tabular data

### Temperature Sensor

Summer 2018

- Designed a circuit that has three green, red, and blue LEDS to display normal, hot, or below zero temperature

## EXPERIENCE

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### Undergraduate Research Assistant

Jan 2020 – Dec 2020

*University of Utah SCI*

*Salt Lake City, UT*

- Experimented with an eye tracker using MATLAB for running tests to diagnose chest x-ray images
- Collected over 50 x-ray images for diagnoses for various lung diseases to prepare for radiologists

### Teaching Assistant

Aug. 2020 – December 2020

*University of Utah Engineering department*

*Salt Lake City, UT*

- Prepared and created Latex tutorials to enhance students understanding of class materials
- Graded and gave feedback on students' reports to improve their knowledge on technical writing.

## ACTIVITIES

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### Society of Women Engineers: SWEster

Aug 2020 – present

- Scheduled recurring meetings with SWEster members to discuss and give advice about engineering programs.
- Mentor incoming freshmen to help guide them through engineering programs academically and personally

### Students Advisory Committee

Aug 2019 – present

- Represent the Electrical and Computer Engineers on engineering day to help answer questions about the program