# RIZWAAN ABDUL

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# $COMPUTER\ PROGRAMMER,\ DIGITAL$ FABRICATOR

#### **Profile**

I am very passionate about the world I live in and in improving it using the skills I know best.

#### Skills

## Digital Design

Using open source and closed source tools to create both 3d and 2d models that can be either digitally fabricated or become a user interface for a software.

## **Database Design**

Efficient database design for a quick and effective queries.

# **Digital Fabrication**

Proven ability to use available machines to create a reproduceable result using automated control.

## **Project Direction**

Proven ability to lead and manage a wide variety of design and development projects in team and independent situations.

#### **Technical**

HTML	MySQL	macOS
CSS	PHP	Windows
JavaScript	V - Carve	Linux
Video Editing	Shopbot	Laser Engraver
Coral Draw	Fusion 260	Arduino

#### Experience

## Scopes DF Fabship Internship

June, 2018

I was, in a team of 3, tasked to make a pinball machine using only means of digital fabrication using tools such as the Shopbot, Carvey, Laser Cutter, Vinyl Cutter, etc.

# Grass in the Road Private Programmer

May, 2018 – August, 2018

I was independently hired to create and implement an algorithm that produced a personalized literary based on a simple interest survey.

# Hunter Museum of Art

August, 2017 - October, 2017

Digital Fabrication

An art piece that was digitally fabricated with embedded LEDs in order to provide a more interactive yet reproduceable art experience.

Signal Centers Digital Fabrication

March, 2018 - May, 2018

An arcade machine for the physically disabled which can be controlled using only one foot. A special foot joystick was digitally designed and fabricated to allow for continuous 360 degree input.

Grass in the Road

August, 2018

**Software Innovations** 

A database administration software for Grass in the Road to automatically upload an excel spreadsheet to a MySQL database.

Kenco IoT

August, 2018 - October, 2018

Software Innovations/Digital Fabrication

A warehouse stock management software which receives sensor values and displays it in an intuitive design. A PCB based on Arduino Open Boards which includes slots for multiple USB based sensors and one radio antenna for communicating sensor values.

Creative Discovery Museum

October, 2018 - February, 2019

Software Innovations/Digital Fabrication

An electronic battleship type game in which all the pieces were cut on the Shopbot and Laser Engraver for the Creative Discovery Museum. A custom PCB was also designed to lower the cost if needed to reproduce.

Challenger Center

January, 2019 - March, 2019

Digital Fabrication

A race track was digitally designed and fabricated for students in grades K-5 to analyze the difference mass causes in the average velocity of the object at the Challenger Center.

BÜK by Rizwaan Company

November, 2016 - Current

**Software Innovations** 

An educational program that allows teachers and administrators to create a list of possible classes for each time of day, then allow the students to choose the classes they prefer.

programming (a self grading quiz/instruction platform). I also lead a competition between STEM School students and employees of UNUM in regards to computer science.

# Recognition

Extracurricular I have been in many local Chattanooga Newspapers, magazines, and online articles representing STEM School Chattanooga and Hamilton County's Department of Education as a whole. Additionally, Hamilton County Department of Education have recorded and published an interview of my achievements.

# Additional Notes

I have received scholarships to attend Gig City Elixir, which is an annual developer conference in Chattanooga.

I placed first in MIST (Muslim Interscholastic Tournament) Nashville for Extemporaneous Speech and third in Jeopardy.

I hosted STEM School's Surge presentations, which is an event where seniors present their business ventures to potential investors.

I hosted Chattanooga Tamil Sangam's Pongal function, which is an annual celebration in Tamil Culture correlated to the month of harvest.

I gave a presentation regarding the economical difference in support of Israel and Palestine versus the population support along with the social situation in the middle east.

#### Education

STEM School Chattanooga - Chattanooga, Tennessee 4.0 GPA

Chattanooga State Community College - Chattanooga, Tennessee Calculus I, Calculus II, Linear Algebra, Computer Science I — 4.0 GPA

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For reference images or links please contact me above.