RABAB FATIMA

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EDUCATION

University of Houston   12/2018
B.Sc Computer Science (major),
Mathematics (minor).
Honors: GHC 2019 Women of Color in Tech
Scholar; University of Houston GHC 2018
Scholarship; Deans List 2016.
Relevant Coursework: Game Art and
Animation, Entrepreneurship for CS,
Ubiquitous Computing, Web Security, Data
Mining, Software Design, Introduction to
Computer Networks.

TECHNICAL SKILLS

Programming Languages & Platforms:
C++, Java, Python, C#, JavaScript, React, SQL,
iOS/Swift, Ruby, HTML, CSS, Bootstrap, jQuery,
NodeJS, MongoDB, jUnit, Git.
IDEs/Software: XCode, InteliJ IDEA,
mySQL Workbench, Visual Studio Code,
Sublime Text, Adobe Illustrator/Photoshop.
Software Engineering Paradigms:
Object Oriented Design,
Test Driven Development, Agile Methodology.,
Functional Programming

LEADERSHIP & COMMUNITY

CodeRED Discovery 2018   05/2018 to
Hackathon   11/2018
- Director of Finances
- Executive decision maker, director and
  organizer for CodeRED - 2018 Hackathon.
- Handled all finances and budgeting for
  the hackathon.

ACM - CougarCS at University   05/2018 to
of Houston   12/2018
- Treasurer
- Executive officer responsible for handling
  all finances for the organization.

ACM - CougarCS at University   05/2017 to
of Houston   05/2018
- Secretary
- Responsible for organizing, documenting
  and managing meetings with the
  department, relevant third parties, and
  any other non-
- members.

Rewriting the Code –   11/2017 to
Member   Current

EXPERIENCE

Lead Computer Science Instructor   04/2019 to 02/2020
The Learning Experience
- Taught 20-30 students programming in JavaScript, mainly Vanilla JS.
- Guided students on programming topics like loops, sequences, events, and coding fundamentals
  like debugging.
- Led and collaborated with other instructors to create Computer Science curriculum.

Software Developer - Database Intern   07/2018 to 12/2018
University of Houston - Division of Research
- Designed and developed database for Strategic Communications Team to market the University
  Research Publication.
- Designed database schema using mySQL workbench for relational database to store large dataset
  containing 1000+ rows.
- Suggested and wrote complex queries in mySQL to customize data retrieval to help form future
  research partnerships with research leaders within US. Developed using mySQL.

Math Tutor   11/2015 to 04/2016
Blinn College
- Worked as a tutor for various math classes including Calculus I, II & III, Algebra, Trigonometry.
- Received CRLA's International Tutor Training Program Lifetime Certification for Advanced Certified
  Tutor, Level I.

PROJECTS

Lexicali: Web App   03/2020
Role: Full Stack Developer
- Developed a Sinatra website that wraps a lexicon of words and a few methods to interact with that
  lexicon.
- Lexicon methods include: Generate all possible anagrams of a word, Find all words with a given
  prefix, Generate word ladder between two words.
- Tech Stack: Ruby, JavaScript, HTML, CSS.

Oscillating Sine Wave: Web App   01/2020
Role: Web Developer
- Developed a web page displaying a continuously oscillating Sine Wave using JavaScript, HTML, CSS.
- Features: View x-axis and y-axis on Sine Wave; Move wave in right or left direction.

Video Audio Synthesizer: Web App   07/2019
Role: Web Developer
- Created a Video Audio Synthesizer web app using JavaScript, HTML, CSS.
- Displayed with a black screen background, hit any alphabet key for animation to appear and play
  unique sound.
- Used JavaScript libraries paper.js for animations/graphics, and howler.js for playing sounds.

RGB Color Game : Web App   09/2019
Role: Web Developer
- Color Guessing Game application developed using HTML, CSS, Javascript.
- The Game: Displayed by a set of colors and a RGB color description. You should guess what color is
  the RGB color.

grüv. - Habit Tracker iOS App   09/2018 to 12/2018
Role: Software Engineer Generalist
- Collaborated with 4 engineers to Develop a Habit Tracker app in Swift on Xcode to track user's
  habits based on regular input.
- Used UITableView from UIKit and CardViewList in Swift to populate Habit categories and Habits onto
  Views.
- Wrote UI and Functional Tests for essential UI elements using XCTest framework from Apple to
  ensure low error rate.

DietAR - Augmented Reality Diet Assistant   08/2018 to 12/2018
Role: UX Researcher/Designer
- Collaborated with three engineers to develop an MVP within a fast-paced 4-month sprint.
  Conducted user interviews with 20+ working professionals to identify customer profile and target
  speficic problem space.
- Designed app mockups using Adobe Photoshop and Illustrator for MVP.

Google Applied CS Workshop – CougarCS   04/2018 to 05/2018
Role: Android Developer & Instructor
- Facilitated and lead a 3 day Google Applied CS Workshop on Android Development that included
  over 30 students.
- The workshop centered on making an Android game called Word Stack that used the stack data
  structure and the drag and drop functionality. The game was developed on Android Studio and was
  programmed using Java.