RABAB FATIMA

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EDUCATION

University of Houston
B.Sc Computer Science (major), Mathematics (minor), Graduated Dec 2018
Honors: GHC 2019 Women of Color in Tech Scholar; University of Houston GHC 2018 Scholarship; Deans List 2016.

EXPERIENCE

Software Developer - Database Intern, University of Houston - Division of Research   07/18 - 12/18
- Designed database schema using mySQL workbench for relational database to store large dataset containing 1000+ rows.
- Suggested and wrote complex queries to customize data retrieval for Strategic Communications Team in order to better market UH research magazine.
- Developed a Relational Database Management System using mySQL and phpMyAdmin for user access.

Software Engineer Generalist/ SDET, grüv. - Habit Tracker iOS App   09/18 - 12/18
- Developed a Habit Tracker app in Swift on Xcode to track user's habits based on regular input, in a group of 5 students.
- Used UITableView from UIKit and CardViewList in Swift to populate Habit categories and Habits onto Views.
- Responsible for testing and quality assurance using XCTest framework from Apple. Tests include UI and Functional testing.

Android Developer & Instructor, Google Applied CS Workshop – CougarCS   04/18 - 05/18
- 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.

Software Engineer, Stack It Bot – CodeRed Curiosity (Hackathon)   10/16 - 10/16
- Designed a mini robot to play an app game called Stack.
- Programmed Arduino Uno using C to signal the motor and attached stylus to turn at a specific angle and time interval.

SKILLS

PROGRAMMING LANGUAGES & PLATFORMS: C++, Java, Python, HTML, CSS, SQL, iOS/Swift, JavaScript, Bootstrap, jQuery, NodeJS, ExpressJS, 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.
CS CORE COURSES: Algorithms & Data Structures, Operating Systems, Database & Design Systems, Computer Organization & Architecture.
CS ELECTIVES: Game Art and Animation, Entrepreneurship for CS, Ubiquitous Computing, Web Security, Data Mining, Software Design, Introduction to Computer Networks.
MATH: Advanced Linear Algebra, Discrete Mathematics, Statistics, Differential Equations.
ONLINE LEARNING DEVELOPMENT: The Web Developer Bootcamp by Colt Steele on Udemy.

ACTIVITIES

CodeRED Discovery 2018 - Hackathon - Director of Finances   05/18 - 11/18
- Executive decision maker, director and organizer for CodeRED - 2018 Hackathon.
- Handled all finances and budgeting for the hackathon.

ACM - CougarCS at University of Houston - Treasurer   05/18 - 12/18
- Executive officer responsible for handling all finances for the organization.

ACM - CougarCS at University of Houston - Secretary   05/17 - 05/18
- Responsible for organizing, documenting and managing meetings with the department, relevant third parties, and any other non-members.

Rewriting the Code - Member   11/17 - Current