Emran Shafaq

1023 W. 24th St, Austin, TX 78705 | 817-734-8659 | emran.shafaq@gmail.com | github.com/emzatos

Education

B.S., COMPUTER SCIENCE | B.S., MATHEMATICS | MAY 2019 | THE UNIVERSITY OF TEXAS AT AUSTIN

- · GPA: 3.27
- · Relevant Computer Science Coursework: Data Structures, Computer Architecture, Operating Systems, Software Engineering, Intro to Security, Generic Programming and the STL, Android App Development
- · Relevant Math Coursework: Differential Equations, Linear Algebra, Algebraic Structures, Complex Analysis

Experience

LEAD WEB DEVELOPER | CENTER FOR CARDIOVASCULAR SIMULATION | MAY 2017

- Develop and maintain wiki site for the Center for Cardiovascular Simulation in the Institute for Computational Engineering and Sciences at UT Austin
- · Uses Django and PostgreSQL for backend and databasing
- · Uses React and Bootstrap for frontend

Notable Projects

NOVEMBER SKY | OCTOBER 2016

- · 2nd place winner at HackTX 2016
- · Rocket simulator that requires the user to manually program the rocket's actions in JavaScript
- · Teaches basic programming to individuals with minimal experience in a fun, intuitive way
- · Uses Pixi.js for graphics rendering and matter.js as physics engine

BOSWEMIAN RHAPSODY | SPRING 2017

- · Database site with five teammates to categorize music, using the Spotify API
- · Generated RESTful API to extract song/artist/album information from the database.
- Utilizes Flask for backend, React for frontend, PostgreSQL and SQLAlchemy for databasing, Travis CI and GitHub for project integration and version control

MANDELIS | SUMMER 2017

- · Mandelbrot set viewer based in JavaScript
- · Includes multi-threading, multi-sampling, export options, and smooth zooming/panning
- · Additional features include rendering options and Julia set generation

TWILYSIS | SUMMER 2017

- · Final project for Android Development course
- · Uses Android Twitter API and IBM Watson to analyze personality traits using a user's most recent tweets
- · Written in Java, XML

Other Projects

- · Recreation of the AES Encryption Algorithm | Java
- · Steganography Image Encoder | Java
- · Basic Bash Shell | C

Skills

- · Proficient in C++, Python
- · Familiar with JavaScript, C, Java
- · Exposure to Lisp, Haskell, Swift

- · Recreation of Boost Graph Library | C++
- · Password Cracker | Java
- · Recreation of std::deque | C++
- · Familiar with Django and Flask
- · Familiar with Docker and Google Cloud Platform
- · Familiar with Travis CI and git

Extracurricular

HUM A CAPPELLA | FALL 2016 - PRESENT

- · Bass singer for collegiate South Asian fusion a cappella team
- · Perform at concerts and competitions around the country

91.7 KVRX AUSTIN | SPRING 2017 - PRESENT

- · DJ for University radio station
- · Host one hour show once a week for HD and FM listeners