

Nabil Zubair

SOFTWARE ENGINEER

Arlington, TX

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Education

The University of Texas at Austin

Austin, TX

B.S. COMPUTER SCIENCE | 3.78 GPA

Aug. 2017 - May 2021

Relevant Coursework:

- Data Structures and Algorithms
- Computer Organization and Architecture
- Discrete Math

Experience

Tutor.com

Arlington, TX

COMPUTER SCIENCE TUTOR

Aug. 2018 - Jan. 2019

- Virtually tutored students in classes ranging from AP Computer Science A to introductory college courses including Data Structures and Algorithms
- Taught basic programming concepts, such as loops, coding hygiene, object oriented programming, and data structures and algorithms in Java and Python
- Worked with 20 students ranging from high school freshmen to undergraduate seniors over the course of a semester maintaining a five star average throughout

Research

The University of Texas at Austin College of Natural Sciences

Austin, TX

UNDERGRADUATE RESEARCHER | AUTONOMOUS INTELLIGENT ROBOTS

Jan. 2018 - May 2018

- Designed and developed BWIBots, autonomous robots that work together to improve the visitor experience in the Gates Dell Complex
- Implemented spatial awareness and a guiding feature that leads visitors to a location of their choice
- Learned about and utilized real-time computing and AI algorithms such as decision trees and linear/logistic regression

Projects

More projects available at <http://nabilzubair.me>

Weather Today

PYTHON, JAVASCRIPT, NOSQL, FIREBASE/TWILIO/OPENWEATHERMAP API

- Sends daily texts to users regarding the weather(temperature, precipitation, etc.) based on their location
- Utilized the Firebase API and NoSQL to create a database of users who have subscribed to the service and keep track of their name, location, preferences, etc.
- Utilized Twilio's API to send texts to users and OpenWeatherMap's API to retrieve weather information

FortniteWins

JAVASCRIPT, JQUERY, NODEJS, REACTJS

- Utilized the API of the popular game "Fortnite" to display the statistics of a user input name
- Implemented statistics such as wins, kills, and a unique algorithm to rank players in each region

BucketList API

PYTHON, FLASK, POSTGRESQL

- Developed a RESTful API for a bucket list
- Implemented HTTP request functionality to create, delete, retrieve, and update existing bucket lists

Huffman Coding

JAVA

- Compresses files using lossless data compression (Huffman coding)
- Returns files to original state by decompressing files that were previously compressed
- Files are usually compressed by 30%, some by more than 50%

Skills

Languages Java, Python, C, NoSQL, PostgreSQL, MySQL, JavaScript, Node.js, React.js, HTML5, CSS3

Tools Git, LaTeX, Android Studio, Xcode, .NET, Bash, Linux, Microsoft Office