

GiveBlaiseAnInterview.com

Blaise Willoughby, Software/ Fullstack Engineer
8821 Hornaday Cir. S #506
Fort Worth, TX 76120
(217) 413-9032
blaisewilloughby@gmail.com

EXPERIENCE

Bell Flight, Fort Worth Texas — *Software Engineer*

July 2020 - PRESENT

Programming/ troubleshooting a software testing module for the AH-1Z and UH-1Y helicopter's flight computers, primarily using C#/ Microsoft Access on the back end and LabView on the front end. Once completed, the new testing module will take the total software/ hardware testing procedure of flight computers from ~2800 man hours to ~300 hours, allowing software updates to be tested and deployed much faster to existing aircraft in the field.

Bell Flight, Fort Worth Texas — *Software Engineering Intern*

May 2019 - August 2019

Developed Matlab scripts to interact with Bell's flight simulation tools, perform maneuvers in flight, and perform numerical analysis on the sensor data/ control laws governing the fly-by-wire system on the Bell 360 Invictus.

EDUCATION

Southern Illinois University of Edwardsville, *B.S. Mechatronics and Robotics Engineering 3.5GPA*

August 2016 - May 2020

Computer Engineering and Mathematics Minors.

Udemy.com (educational courses website)

- The Web Developer Bootcamp 2021
- The Modern React Bootcamp (Hooks, Context, NextJS, Router)
- JavaScript Algorithms and Data Structures Masterclass

University of Texas at Arlington 3.75 GPA

May 2020 - January 2021

- Design & Analysis of Algorithms (Graduate Level)
- Data Analysis & Modeling Techniques (Graduate Level)
- Operating Systems (Undergraduate Level)

SKILLS

Javascript, React, Full Stack Development, Express, MongoDB, Java, C#, Python, REST, Node.js

PROJECTS

GiveBlaiseAnInterview.com is a website I've hosted as an EC2 instance on AWS to showcase an understanding of the full MERN stack (MongoDB, Express, React, and Node). The website consists of three sub projects.

- 1) An "About Me" page is a more visual representation of this resume, showcasing the use of React, css, and bootstrap.
- 2) A "Sorting Visualizer" page that shows a visualization of both bubble sort and merge sort, showcasing React, manipulating state/ the DOM, as well as an understanding of the importance of time complexities.
- 3) A "Restful API" page which is a React user interface to interact with the Express server in Node that can create, read, update, and delete data from a MongoDB database in the cloud.