# JOHN JACK LEWIS


**P** 913.710.5315 **E** jklewis99@gmail.com **A** 21320 W 115th St. Olathe, KS 66061 **W** johnjacklewis.com


## EXPERIENCE

**University of Missouri** REU in Consumer Networking Technologies
**May 2020 – July 2020**

- Designed and implemented novel multimodal deep learning network that achieved 65% accuracy in deepfake detection
- Drafted research paper and presented research at IEEE AIPR 2020: Trusted Computing, Privacy, and Securing Multimedia
- Processed 478 GB of videos from the Facebook Deepfake Detection Challenge using Python

**Florida Southern College** Programming Team Member
**September 2018 – Present**

- Competed in the 2018 and 2019 ACM ICPC Southeast USA Regional Programming Contests; placed 2nd at competition site (2019)
- Compete against other college students to solve the most real-world programming problems using Java and Python
- Explain and optimize solutions through collaborative demonstration in weekly programming competitions

**Florida Southern College** Student Software Developer
**January 2020 – May 2020**

- Developed a web-based application with Vue.js that utilized the Spotify API for location-based music sharing
- Followed Agile software development methodology

## SOFTWARE PROJECTS

**Traveling Salesperson: Pizza Pilgrimage**

- Implemented heuristic using 2-opt algorithm to solve a variation of the non-metric traveling salesperson problem

**Film Score Bracket Challenge**

- Designed web-based application with Vue.js allowing users to submit predictions in a tournament-style bracket challenge based on Instagram polls of film scores

**Maze Generator and Solver**

- Developed a program in Python to visualize differences of random maze generation procedures using Prim's and Kruskal's algorithms and the differences between the maze solving strategies of breadth first search, depth first search, and flood fill

**Soundboard Keyboard**

- Developed a program using Python that allows a user's keyboard to function as a small piano or MIDI soundboard by mapping sounds to specific keys

## EDUCATION

**Florida Southern College**
Lakeland, FL
***Expected Graduation: May 2021***
B.S.in Computer Science,
B.S. in Applied Mathematics
Honors Program
GPA: 4.0/4.0

**Relevant Coursework:**

- Machine Learning
- Software Engineering
- Analysis of Algorithms
- Problem Solving in CS
- Introduction to AI
- Data Structures
- Database Management Systems
- Coding Theory
- Problem Solving in Mathematics

## SKILLS

**Languages**:
*Comfortable with* Python, Java
*Worked in* SQL, MySQL, JavaScript, HTML, CSS

**Technologies:**
Linux, Git, GitHub, Vue.js, Firebase

## CAMPUS ACTIVITES

**Student Government Association:**
*Vice President of Finance, Senator*
**Climbing Club:**
*Vice President*
**Wellness Center:**
*Intramural Supervisor, Referee*
**Community Living:**
*Resident Advisor*