

JOHN JACK LEWIS

P 913.710.5315

E jklewis99@gmail.com

A 11586 S Montclair Dr.
Olathe, KS 66061

W johnjacklewis.com

EXPERIENCE

Associate Software Engineer (Full Stack Engineer), [H&R Block](#)

May 2021 – Present • Kansas City, MO (Remote)

- Lead Developer on Company Imperative: Practice Mode
 - Designed sandbox training environment using **Angular (TypeScript)** and **.NET/C#** within our Work Center application for newly hired tax professionals
 - Reduced front-end development time by 45% by building an automated application to align changes in separate, independent projects
- Primary Developer on Company Imperative: MeF Attachment
 - Integrated full-stack functionality across 9 company teams for uploading MeF Attachments within a 20-day timeline
 - Built Azure Function App using **.NET/C#** and introduced novel functionality to our RESTful API and Event Consumer and Producer

REU in Consumer Networking Technologies, [University of Missouri](#)

May 2020 – July 2020 • Columbia, MO (Remote)

- Designed and implemented novel multimodal deep learning network achieving 62% accuracy in deepfake detection using **Python**
- [Published](#) 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, OpenCV, and PyTorch

Programming Team Member, [Florida Southern College](#)

September 2018 – May 2021 • Lakeland, FL

- Competed in the 2018 and 2019 ACM ICPC Southeast USA Regional Programming Contests; placed 2nd at competition site (2019)
- Explained and optimized solutions through collaborative demonstration in weekly programming competitions, programming primarily in **Java** and **Python**

SOFTWARE PROJECTS

Film Revenue Predictor [🔗 Furiosa](#)

- Developed an end-to-end data science application for predicting revenue for films from the 2010s using **Python**
- Improved R^2 values by 15% when compared to strict baseline metadata by introducing the popularity metric of a YouTube trailer as an input parameter
- Created dataset using TMDb API and YouTube Data API

Film Genre Prediction [🔗 Magical Movie Poster Processing](#)

- Built deep convolutional neural networks to predict genres of a film based solely on an image of the film poster using **Python**, **TensorFlow**, and **Keras**
- Achieved 96% overall prediction accuracy and 42% fully correct prediction accuracy for multi-label classification of genres by implementing transfer learning with the *NasNetLarge*, *InceptionResNetV2*, and *XceptionNet* models

Hypertriviation Web Trivia [🔗 Hypertriviation](#)

- Designing a full-stack web application with **React (TypeScript)** and **Django (Python)** allowing users to compete in real-time user-generated trivia games using web sockets and the Spotify Web API

EDUCATION

[Florida Southern College](#), May 2021

B.S. in Computer Science, B.S. in Applied Mathematics

Honors Program GPA: 4.0/4.0

Relevant Coursework:

- | | |
|--------------------------|-------------------------------|
| ▪ Machine Learning | ▪ Problem Solving in CS |
| ▪ Software Engineering | ▪ Data Structures |
| ▪ Analysis of Algorithms | ▪ Database Management Systems |

SKILLS

Languages:

C#, Python, JavaScript/TypeScript, Java, SQL, MySQL, HTML, CSS

Technologies & Frameworks:

Angular, .NET, Azure, React, TensorFlow, Keras, Django, sci-kit learn, Pandas, Linux, Git/GitHub, PyTorch, Vue, React