John Henning

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Education

BS in Computer Science, BS in Mathematics Graduation: **2018**
University of Florida GPA: **3.48**
Dual Degree in Computer Science and Mathematics. Computer Science Major is through the College of Engineering. Mathematics Major is through the College of Liberal Arts and Sciences

Associate of Arts Graduation: **2015**
Santa Fe College GPA: **3.79**
Member of the Honors Program

Experience

PARACOSM Gainesville, FL
Machine Learning and R&D Intern *May 2016 - Present*
- Developing a depth upsampling algorithm to have better depth information from based on lower resolution depth images and high resolution color images.
- Learning good software engineering practices, such as version control, code style guide, and detailed commenting,

COMPUTATIONAL NEUROENGINEERING LABORATORY Gainesville, FL
Undergraduate Research Assistant *September 2015 - Present*
- Researching machine learning, deep learning and artificial neural networks using the Theano Python library and Keras deep learning Library.
- Working on an algorithm to identify salient regions of an image to more easily classify images by finding the areas of interest.
- Helping develop a library to wrap games to train a neural network to play them

CODEPATH UNIVERSITY Gainesville, FL
iOS App Development Bootcamp Participant *January 2016 - April 2016*
- Participated in CodePath's first mobile bootcamp exclusive to selected college students.
- Learned Swift iOS development
- Worked in a fast paced setting, with a new project due every week
- Received Top Student ranking at the end of the class

SWAMPHACKS Gainesville, FL
SwampHacks Transportation Coordinator *January 2016*
- Oversaw SwampHacks attendees coming from across Florida to make sure they safely arrived at the event, and anyone who took a bus made it back on the bus.

Skills

Proficient in Python, C++, Java, JavaScript and Swift
Neural Networks, Machine Learning, Computer Vision
Keras, Theano, TensorFlow, OpenCV
Worked with C#, C, Objective C, and Ruby
Effective Communication Skills

Projects

SIGNON Tallahassee, FL
HackFSU Project *February 2016*
- Won 3rd Place Overall. America Sign Language Interpreter that translates sign gestures by translating by classifying them with a convolutional neural network. Planning to continue work on the project and learn more gestures.
- https://github.com/iSign-HackFSU/iSignNeuralNet

GAIA Gainesville, FL
CodePath Group Project *2016*
- iOS App that identifies animals that the user takes a picture of and gives a score based on the animal's rarity. It was developed in Swift and used the Clarifai API to identify animals
- https://github.com/wildmustard/Gaia-iOS

FACIAL RECOGNITION LOGIN SYSTEM
C++ Final Project *20 -*
- Created Facial Recognition software using OpenCV to detect, learn, and recognize faces. Developed in C++
- https://github.com/jlhbaseball15/COP3503FINAL

Activities

ARTIFICIAL INTELLIGENCE CLUB — Gainesville, FL
President and Co-Founder — *January 2016 - Present*

- Helping promote the study of Artificial Intelligence at the University of Florida.
- Give weekly lectures during the school year about different topics ranging from Machine Learning to Natural Language Processing to Computer Vision.

ASSOCIATION FOR COMPUTING MACHINERY — Gainesville, FL
Active Member

- Actively involved with the University of Florida Chapter of ACM.
- Participate in Friday Night Hacks
- Travel to Hackathons with other members

MAJOR LEAGUE HACKING — USA
Hacker — *2015 - Present*

- Participated in HackGT, UGAHacks, and HackHarvard during Fall 2015 Season.
- Participated in KnightHacks, HackFSU, HackIllinois, MangoHacks, and MLH Prime during Spring 2016 Season.
  - Won 3rd place overall at HackFSU. Won Best Use of Emerging Tech to Make an Impact Hack at HackIllinois. Won Best Developer Tool at MLH Prime
- Volunteered at SwampHacks 2016

Classes

COP3502 - Java Programming, Grade Received: A-
COP3503 - C++ Programming, Grade Received: A
CIS4930 - Math for Intelligent Systems - Currently Enrolled
COT3100 - Discrete Structures, Grade Received: A,
CAP5416 - Computer Vision - Currently Enrolled