

Kobee Raveendran

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EDUCATION

University of Central Florida M.S. in Computer Science, Concentration in Machine Learning, GPA: 4.00/4.00	Orlando, FL Aug. 2020 – Dec. 2021
University of Central Florida B.S. in Computer Science, Mathematics Minor, GPA: 3.83/4.00	Orlando, FL Aug. 2016 – May 2020

EXPERIENCE

Microsoft Software Engineer I – Windows & Devices @ Microsoft	Redmond, WA January 2022 -
Microsoft Software Engineer Intern – Working on the Widgets feature of Windows 11 on the SigX PC2 team. WDX group, Windows & Devices Org @ Microsoft	Redmond, WA May 2021 - Aug. 2021
Major League Hacking Software Engineering Fellow – Developing an NLP-based learning solution for members of the U.S. Navy to practice voice commands and evaluate their performance – Responsible for part of the frontend (React) implementation, and much of the speech transcription, scoring and performance evaluation components of the app	Remote Oct. 2020 – Dec. 2020
University of Central Florida Researcher at the Connected and Autonomous Vehicles Research Lab (CAVREL) – Worked under Dr. Yaser Fallah and the PhD students in CAVREL on the perception (lane-finding, 3D object detection) components of connected self-driving vehicles	Orlando, FL Jan. 2020 – Aug. 2020
University of Florida Researcher at the NanoScape Lab, UF SURF Program – Worked under Dr. Swarup Bhunia and Prabuddha Chakraborty to develop and improve on a novel image compression algorithm using machine learning for predicting Delaunay triangulation points, and quantization for discretizing colors in an image – ML model development and testing was done in Python using Keras for prototyping, and color quantization and dequantization methods were implemented in C++	Gainesville, FL May 2019 – Aug. 2019
The Walt Disney Company Machine Learning Engineer Intern – Researched and implemented components of a machine learning model for predicting user interest in products using a corpus of product descriptions – Tested, demonstrated, and reviewed the viability of new machine learning tools for approval of use within Walt Disney Parks and Resorts (WDPR) – Developed tools for tokenization and authentication into Walt Disney Parks and Resorts using Python and JavaScript	Orlando, FL Jan. 2019 – May 2019

SKILLS

- **ML Development:** PyTorch, Keras, TensorFlow
- **Data Science:** NumPy, pandas, scikit-learn, matplotlib, spaCy
- **Web Development:** Flask, React
- **Mobile Development:** Android Studio
- **Misc. Software Dev:** Git, UNIX command line

LANGUAGES

- **Python:** Advanced
- **C++:** Intermediate
- **JavaScript:** Intermediate
- **Java:** Intermediate

PROJECTS

You can view more of my projects and the source code of public projects by viewing my [Github repositories](#).

- **Headstone Photo Processing System** – Electron, React, Redux, SQLite, TensorFlow 2019 – 2020
Desktop application made to extract visually-challenging text from headstone images and match each image to an entry in a cemetery database. Consisted of components such as flexible text extraction via AttentionOCR, automatic headstone cropping, and rotation detection (with correction).
- **NavySpeak** – React Native, Expo, TypeScript 2020
Cross-platform app designed to help members of the U.S. Navy learn and practice spoken commands for a variety of on-the-job scenarios. Includes automatic performance evaluation and guided progression through a curriculum set by naval instructors.
- **Faster Pix2Pix** – Python, PyTorch 2018
Training speed-oriented improvement on Philip Isola et. al's cGAN-based Pix2Pix network for conditional image-to-image translation.
- **Curved Lane Finding** – Python, cv2 2020
General pipeline using foundational computer vision techniques for identifying and labeling lane lines, lane curvature, and vehicle offset.

SCHOLARSHIPS AND AWARDS

- National Merit Scholarship Award 2016 – 2020
- Benacquisto Scholarship 2016 – 2020
- Bright Futures Academic Scholar (FAS) 2016 – 2021
- Bright Futures Academic Top Scholar 2016 – 2020
Awarded to the student ranked highest academically in each county, in addition to the FAS
- UCF President's Honor Roll 2017 – 2020
- CECS Dean's List 2017 – 2021

ORGANIZATIONS AND EXTRACURRICULAR ACTIVITIES

- Member of SIGAI@UCF 2018
Applied exploration of foundational and recent approaches in various subfields of artificial intelligence.
- Member of HACK@UCF 2016 – 2018
Weekly dive into fun cybersecurity-related topics, accompanied by live demos and walkthroughs.
- Member of the Burnett Honors College at UCF 2016 – 2019