

ALEXANDER DECURNOU

✉ ad@alx.xyz 🌐 https://alx.xyz 📞 904-240-2065 in adcrn 🌀 deekerno

EDUCATION

University of Central Florida

B.S. Computer Science 2018

SKILLS

LANGUAGES: Python, Rust, C++, Go, HTML, CSS, Java

TOOLS: Git, Zsh, Linux, macOS, Windows, Nginx, AWS

FRAMEWORKS AND LIBRARIES: PostgreSQL, Keras, Pandas, OpenCV, PostgreSQL, Tensorflow

EMPLOYMENT

Harris Corporation, *Software Engineer*, Melbourne, FL

Jan. 2019 - Oct. 2019

- Created unique neural network architectures in order to automate feature extraction from geospatial data
- Implemented state-of-the-art **machine learning** and **computer vision** techniques to improve existing feature extraction capabilities
- Developed future-proof SQL schema to efficiently store all geospatial satellite photo extraction data

Deloitte, *Solutions Analyst*, Orlando, FL

Aug. 2018 - Jan. 2019

- Created cloud infrastructure setups according to client needs
- Contributed to development of continuous integration and development pipelines

University of Central Florida, *Instructional Development Assistant*, Orlando, FL

Mar. 2017 - Aug. 2018

- Created video tutorials for the university's learning management system
- Transcribed audio for closed captioning in order to meet accessibility standards
- Developed a utility that automates transcriptions through the use of an external service, thereby shortening initial transcription time by 60-75%

University of Central Florida, *Audio/Visual Operator*, Orlando, FL

Nov. 2015 - Aug. 2018

- Provided technical and logistical support for university guests
- Troubleshoot hardware and software issues for departmental desktop and server systems

PROJECTS

audisee | Rust

A foundational audio feature extraction library

- Provides necessary building blocks to build audio analysis systems
- Detects musical pitch and other spectral metadata from audio signals
- Written in a functional programming style to reduce side-effects and maximize performance

knest: desktop | Python, Tensorflow

An end-to-end application that automatically selects, crops, and enhances bird photographs

- **Project manager and lead developer** of a four-person team
- Designed and developed a **machine learning** and **computer vision** system
- Personally developed the object classification, object localization, and image manipulation algorithms
- **Won Best in Discipline (Computer Science)** at 2018 State-Wide Senior Design Showcase

tyto | Rust

A fault-tolerant content distribution system

- Processes tens of thousands of network requests per second without extreme load
- Built-in statistics system provides near real-time analysis of content distribution
- Supports IPv4 and IPv6 protocols