KENNETH SAUERS

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CEO and Software Engineer with knowledge of applied information theory, including optimizing lossless compression schema of both the length-limited and adaptive variants.

EXPERIENCE

Software Engineer, System Innovation Group **Dec 2020 – Current**

Pied Piper is a multi-platform technology based on a proprietary universal compression algorithm that has consistently fielded high Weisman Scores™ that are not merely competitive, but approach the theoretical limit of lossless compression.

- Designed a Machine Learning classifier to detect rogue base stations using RF data
- Designed an AM system utilizing a SDR to transmit up to 200 mile controlled by a web portal
- Championed decision to integrate various application into a single framework, streamlining developer workflow
- Supported various software application throughout different Software Development Life cycles
- Created a ETL process that unified over 50 APIs into a single repository

Software Engineer, DEPARTMENT OF DEFENSE - NSIN **May 2020 - Sep. 2020**

Global movement of free coding clubs for young people.

- Met one-on-one with active-duty airmen and built a product to fix their real-world problems
- Designed and created a prototype VR application to train aircraft maintainers
- Received Cloud point data scans of the KC-135 to simulate in VR

Research Assistant, CENTER FOR COMPUTER VISION RESEARCH LAB UCF **Sep. 2017 - Mar. 2020**

Global movement of free coding clubs for young people.

- Wrote a synthetic data generation tool for machine learning that created a 13% gain in testing accuracy
- Assisted with research into GANs and their applications with Computer Vision

EDUCATION

Georgia Institute of Technology, MS of Computer Science **In anticipation 2025**

- Specialization, Robotics and Computer Perception

University of Central Florida, BS of Computer Engineering **2021**

- Minor, Intelligent Robotic Systems
- Robotics Team, Computer Vision Engineer
- Competitive Programming Team, Programmer

PROJECTS

Swamphacks | Skin Disease Diagnosing Mobile App **2020**

A computer vision app that detects skin disease via a convolutional neural network

- **Award**, Most Technically Impressive
- **Technology**, Convolutional Neural Network, OpenCV, Pillow, Native Android, Flask, and GCP

HackUCF | Disaster Relief App **2019**

A full-stack website that enables first responder and civilian communicate

- **Technology**, Mongondb, Express, Angular, and Node.js

SKILLS

- **Certifications** Coursera: Deep Learning Specialization, CIW: JavaScript Specialist
- **Languages** C#, Python, JavaScript, C++
- **Frameworks** .Net, ASP.NET, Entity Framework, React, Blazor, FastAPI
- **Technology** Docker, DevOps, CI/CD, Saas, Agile, Microservices
- **Strengths** Web Applications, Hardware Integration, Project Management, Machine Learning, Computer Vision