

# KENNETH SAUERS

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Software Engineer specializing in machine learning, software architecture, and RF systems, with experience reverse engineering and developing mission-critical applications.

## EXPERIENCE

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### Software Engineer, System Innovation Group

Dec 2020 – Current

- Designed a machine learning classifier that identified base stations with 98% accuracy, enhancing network security.
- Developed an AM transmission system utilizing SDR, enabling controlled communications up to 200 miles via a web portal.
- Led the integration of multiple applications into a single framework, improving deployment efficiency and enabling rapid prototyping
- Supported various software applications across different SDLC stages, improving deployment efficiency and maintaining uptime

### Software Engineer, DEPARTMENT OF DEFENSE - NSIN

May 2020 - Sep. 2020

- Met one-on-one with active-duty airmen and built a product simulate maintenance on the KC-135 aircraft
- Designed and created a prototype VR application to train aircraft maintainers
- Processed and optimized KC-135 cloud point data for VR simulations, allowing accurate simulation of the aircraft

### Research Assistant, CENTER FOR COMPUTER VISION RESEARCH LAB UCF

Sep. 2017 - Mar. 2020

- 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

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### 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

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### 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**, Mongoddb, Express, Angular, and Node.js

## SKILLS

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- **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