

KENNETH SAUERS

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

EXPERIENCE

Software Engineer, System Innovation Group

Dec 2020 – Current

- Developed a high-accuracy machine learning classifier (98%) to detect base stations, strengthening network security.
- Engineered an AM transmission system using SDR, enabling controlled web-based communication over 200 miles.
- Spearheaded the consolidation of multiple applications into a unified framework, streamlining deployment and accelerating prototyping.
- Provided end-to-end support for software applications across the SDLC, optimizing deployment processes and ensuring high availability.

Software Engineer, Department of Defense - NSIN

May 2020 - Sep. 2020

- Collaborated one-on-one with active-duty airmen to develop a simulation tool for KC-135 aircraft maintenance, enhancing training realism.
- Designed and prototyped a VR application to train aircraft maintainers, improving hands-on learning experiences.
- Processed and optimized KC-135 point cloud data for VR simulations, ensuring accurate and high-fidelity aircraft modeling.

Research Assistant, Center for computer vision research lab UCF

Sep. 2017 - Mar. 2020

- Developed a synthetic data generation tool for machine learning, increasing testing accuracy by 13%.
- Contributed to research on Generative Adversarial Networks (GANs) and their applications in Computer Vision, enhancing data augmentation and model performance.

EDUCATION

Georgia Institute of Technology, Master of Science in Computer Science

2025

- Specialization in Computational Perception and Robotics

University of Central Florida, Bachelor of Science in Computer Engineering

2021

- Minor in 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**, Mongoddb, Express, Angular, and Node.js

SKILLS

- **Certifications** Coursera: Deep Learning Specialization, CIW: JavaScript Specialist
- **Languages** C#, Python, JavaScript, Java, 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