# **James Simmons**

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<u>Python</u>

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### <u>Linux</u>

- System administration
- Network management
- Database management (SQL)
- Automation (Bash)

- Assorted Tools
  - C, Java, Git, Vim
- <u>Al / Algorithms Engineer II</u> Elbit Systems of America, June 2023 Present
  Developed Python software components for a machine learning and computer vision pipeline used for military applications
  - Target detection and recognition, video motion detection

### Algorithms Engineering Intern - Elbit Systems of America, July 2022 - June 2023

• As above, in lesser capacity

### Junior Security Analyst - Fortress Information Security, May 2019 - August 2019

• Virtual Security Operations Center (VSOC)

Data Science: NumPy, Pandas, PyPlot

Machine Learning: Torch, Tensorflow

User Interface: Tkinter, Django

- Ran monthly security audits for clients
- Generated reports on newly announced security vulnerabilities

## Education

- MS, Computer Science University of Central Florida, January 2022 May 2023
  - 4.0 GPA
  - Focus Area: Artificial Intelligence and Machine Learning

## BS, Computer Science - University of Central Florida, August 2018 - December 2021

- Summa Cum Laude (4.0 GPA)
- Minor in Mathematics
- Burnett Honors College

## Projects - University of Central Florida

- Headstone Photograph Processing System
  - Used computer vision techniques to rotate, crop, and parse engraved text within images of headstones for the National Cemeteries Administration
  - You Only Look Once (YOLO), Tesseract OCR, Tkinter Python UI
- Arthropod Detection
  - Adapted the YOLO v4 computer vision model to detect and classify subtypes of insects
- Classical Composer Predictor
  - Developed a computer vision model from scratch to classify classical music by their composer based on the distribution of notes with respect to time
- Product Review Quality Analysis
  - Used BERT (natural language processing technique) to determine the usefulness of reviews of ecommerce products

## Extra-Curricular - University of Central Florida

- Secretary, HACK@UCF Cybersecurity Club, 1 year
  - Competitor, Collegiate Cyber Defense Competition team, 2 years
    - Business Specialist, National CCDC 2020: 2nd Place
    - Business Specialist, At-Large CCDC 2020: 1st Place
    - Business Specialist, NIATEC Invitational CCDC 2019: 1st Place
    - Linux Specialist, UBNetDef Lockdown 2019: 2nd Place
- Teacher's Assistant, Computer Science 1, 1 semester

Work

Experience

Skills and

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