

Joshua P. Gracie

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Education

University of Central Florida (UCF), Orlando, FL
Master's of Science in **Computer Science**
Graduation: May 2022
GPA: N/A (First Semester)

University of Central Florida (UCF), Orlando, FL
Bachelor of Science in **Computer Science**
GPA: 3.814

Relevant Coursework

Evolutionary Algorithms	Machine Learning	Computer Vision
Human Computer Interaction	Computer Architecture	Object Oriented Software Development

Honors And Distinctions

UCF President's Honor Roll	Fall 2018, Spring-Fall 2019, Spring-Fall 2020
UCF Dean's List	Fall 2017 and Spring 2018
UCF Pegasus Silver Scholarship	Bright Futures Merit Scholarship
UCF Accelerated BS to MS Program	

Programming Projects

Travelling Salesman Problem (TSP) – Evolutionary Algorithms Spring 2020

Built a Genetic Algorithm to solve the travelling salesman problem. The GA was able to get within 10 – 20% of the current best known answer for the ATT48 dataset

Everglades Battle Bots – Senior Design Fall 2020 - Spring 2021

Created and experimented with several Reinforcement Learning Agents including DQN, A3C, and PPO to play in Lockheed Martin's OpenAI Gym environment "Everglades".

Canny Edge Detector – Computer Vision Fall 2021

Built a Canny Edge Detector Algorithm to find edges in an image given values for sigma, upper threshold ratio, and lower threshold ratio

Work Experience

Florida Blue – Summer Internship – IT Support Desk Summer 2016

Helped internal employees with IT related issues such as password failures, website/browser malfunctions, and computer upkeep.

- Helped quickly solve password related issues during peak hours

Lockheed Martin – CWEP – Lean Six Sigma Department Spring 2019 – Present

Assist the Lean Six Sigma department by managing the department website, creating macros for financial and personnel data sheets, build computer programs for operational assistance, and web apps for teams across the company.

- Learned many fundamentals about Lean Six Sigma
- Learned fundamentals of enterprise business practices
- Honed skills with computer programming and software development

Campus Involvement

UCF EXCEL (Member) 2017 – Present

HACK UCF Cyber Defense Club (Member) 2017 – 2018

Cyber Patriots (Member) 2016 – 2017

Skills & Certifications

Experienced with the C, C#, Python and Java Languages

Microsoft Technical Associate: Security

Experienced with Visual Studios, VS Code, Atom, and Eclipse

Microsoft Technical Associate: Networking

Experienced with Windows and Linux Operating Systems

Experienced with OpenCV, Pytorch, and TensorFlow