

Giorgio Torregrosa

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Education

University of Central Florida, B.S. in Computer Science

Graduating May 2026

- GPA: 4.0
- Minor in Mathematics
- Minor in Physics

Experience

Systems Engineer, Glesec – Orlando, FL

January 2025 – Present

- Reduced Splunk dashboard load times from 15+ seconds to under 1 second, resolving timeout errors affecting development team productivity.
- Identified \$1,200+/month in AWS cost savings by analyzing 43 EC2 instances, achieving a 31% cost reduction on committed compute.
- Supported continuous threat exposure management by optimizing SPL based Notable Event automations and aligning incident response with NIST SP 800-39 standards.

Mathematics Tutor, Valencia College – Orlando, FL

June 2014 – Present

- Provided individualized instruction across many topics in mathematics, resulting in students improving by a full letter grade.
- Diagnosed gaps in student understanding and developed targeted practice strategies, supporting 500+ students.

IT Technician, PC-911 – Gadsden, AL

Sept 2010 – Apr 2016

- Deployed, trained and maintained Google G-Suite services for over 300 users.
- Configured and maintained network infrastructure, including programming routers and running cables.

Projects and Clubs

Lockheed Martin Sponsored Project

- Led GUI development for an autonomous drone swarm search and rescue system
- Refactored a large codebase into a modular architecture that reduced the main Python file by 80%.
- Redesigned UX tools and implemented tile caching with LRU eviction to improve map responsiveness.
- Authored technical documentation for design reviews and collaborated with the Lockheed Martin sponsor to transition the system from simulation to Jetson Nano hardware deployment.

Picture to Document Scanner

- Used Python, OpenCV, NumPy, scikit-image and PIL to developed an interactive document scanning application in Google Colab that rectifies photographs of documents into clean PDFs.
- Built a custom JavaScript/HTML interface for users to select four corner points on a photograph, then computed the homography matrix using Singular Value Decomposition to map the selected region to a rectangle.

ACM Club Member

- Foundation Exam Workshop Leader where I prepared a wide range of CS students from UCF for the Computer Science Foundation Exam, improving their scores by a full 20 points.

Skills

Software Engineering: Data Structures & Algorithms, Object-Oriented Programming, Software Development Life Cycle, Web Accessibility, Agile Methodologies

Languages: Python, Java, C, C++, Fortran, JavaScript, HTML, CSS, SQL, SPL, LaTeX, Markdown

Security Tools: Splunk, Nessus, MISp, Burp Suite, PRTG, ITsMine

Technologies: Git, GitHub, VS Code, Jupyter Notebooks, Eclipse, Postman, SwaggerHub, Jira, Linux, Windows, macOS, AWS, DigitalOcean, Google Sheets, Excel, MATLAB