

# NAWFAL CHERKAOUI ELMALKI

**Portfolio:** nawfalc.me

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## EDUCATION

**University of Central Florida, Orlando**  
Bachelor's of Science (B.S.) in Computer Science  
**GPA:** 4.0

*May 2022 - Present*  
*Expected Graduation: December 2024*

**Coursework:** Object Oriented Programming, Computer Algorithms, Discrete Structures

## WORK EXPERIENCE

**Salesforce**  
Software Engineer Intern

*San Francisco, CA*  
*May 2023 - August 2023*

- Developing Go/GraphQL middleware to optimize AWS configuration data retrieval by 12%

**NASA Marshall Space Flight Center**  
Software Engineer Intern

*Huntsville, AL*  
*January 2023 - May 2023*

- Scripted Apache bot filter with Traefik, Docker, Kubernetes, curtailing malicious traffic by 18%
- Optimized DevSecOps pipeline on OpenShift, boosting containerization speed by 13%
- Designed abridged pipeline, reducing resources for Red Hat 8 Linux patches by 23%

**School District of Osceola County**  
Site Reliability Intern

*Kissimmee, FL*  
*July 2021 - January 2023*

- Maximized LAN performance 14% with TCP/IP, DNS, DHCP, and more protocols
- Automated form processing with Python Selenium, accelerating workflow by 19%
- Reduced software install time by 45% using SSH, Azure, PowerShell, and Active Directory
- Reduced malicious LAN traffic by 16% via Wireshark packet scanning

## SKILLS

**Programming:** Python, Java, Go, C, HTML, CSS, Javascript, Shell, SSH, Git, SQL  
**Technical:** Linux, Agile, AWS, Docker, Kubernetes, TCP/IP Networking, Wireshark  
**Certifications:** CompTIA Security+, CompTIA Network+, CompTIA A+

## PROJECTS

**Weather Wizard**  
Personal

*May 2023 - May 2023*

- Crafted weather display application with HTML, CSS, JavaScript, and OpenWeather API

**ShellHacks Hackathon**  
Competitor

*September 2022 - September 2022*

- Developed Python web application to filter Amazon's bestsellers and streamline user searches

**NASA L'SPACE Mission Concept Academy**  
Project Manager

*June 2022 - September 2022*

- Boosted productivity by 25% for Martian rover project via effective team management
- Crafted Preliminary Design Review with scientific goals, trade studies, and budget estimates

**NASA Community College Aerospace Scholars**  
Computer Engineer

*October 2021 - August 2022*

- Drafted a medicine delivery drone for team challenge
- Devised Google Sites website to present at NASA Langley Research Center

**Lockheed Martin E-Week Robotics Competition**  
Project Manager

*September 2019 - February 2020*

- Developed treaded rover powered by Arduino and infrared sensors with budget of \$100