

NAWFAL CHERKAOUI ELMALKI

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EDUCATION

University of Central Florida, Orlando

Bachelor's of Science (B.S.) in Computer Science

GPA: 3.96 / 4.0

Coursework: Object Oriented Programming, Intro to Discrete Structures, Security in Computing, Computer Science 1 & 2, Computer Logic & Organization, Statistics, Calculus 1 - 3, Physics 1

May 2022 - Present

Expected Graduation: December 2024

WORK EXPERIENCE

NASA Marshall Space Flight Center

Software Engineer Intern

Huntsville, AL

January 2023 - May 2023

- Optimize Red Hat OpenShift **DevSecOps** pipeline to accelerate application containerization by 30%
- Develop abridged pipeline to reduce system resources for monthly Red Hat 8 **Linux** security patches by 50%
- Collaborate in daily stand ups following the Scaled **Agile** for Enterprise ("SAFe") framework

School District of Osceola County

IT Support Specialist Intern

Kissimmee, FL

July 2021 - January 2023

- Maximized LAN performance by 20% with **TCP/IP**, DNS, DHCP, FTP, IMAP, POP3, BGP, OSPF, ECMP, MPLS, and other network protocols
- Accelerated personal workflow by 30%, using **Python Selenium** to web scrape ServiceDesk Plus tickets for **HTML** elements and automate forms
- Decreased software installation times by 200% by imaging over 1,000 Dell computers into district domain with **Azure**, **PowerShell**, and **Active Directory**
- Bolstered network security by 20% through port and packet scanning with **Wireshark** and traceroute
- Capitalized Cisco switch (model 6500) and router (2800) security by programming VLANs and MAC filters using PuTTY (**SSH** and telnet client)
- Improved school performance by 50% by installing, repairing, and inventorying over 1000 computers, iPads, and printers with network specialist team

SKILLS

Programming: Python, Java, C, Shell & SSH, Git

Technical: Agile, TCP/IP Networking, Linux, Wireshark, Active Directory

Certifications: CompTIA A+, CompTIA Network+, Cisco Packet Tracer

PROJECTS

ShellHacks Hackathon

Competitor

September 2022 - September 2022

- Orchestrated with three teammates to script **web scraper** in 36 hours, using **Python Selenium**, that prints top results on Amazon for desired products, ignoring sponsored ads

NASA L'SPACE Mission Concept Academy

Project Manager

June 2022 - September 2022

- Maximized productivity by 25% for **11-member cross-functional effort** to design Martian rover mission by delegating tasks, organizing meetings, and compartmentalizing members
- Engineered 145-page **Preliminary Design Review** document containing scientific goals, CAD drawings, trade studies, budget estimates, mission schedules, and more

NASA Community College Aerospace Scholars

Computer Engineer

October 2021 - August 2022

- Designed Moon mission in **team engineering challenge**, using statistics and research to analyze computer and communications systems
- 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** for environment interactivity with budget of \$100