

# Morphy Kuffour

[morpkuff@protonmail.com](mailto:morpkuff@protonmail.com)

860-573-6681

[LinkedIn](#) [GitHub](#)

[Personal Blog](#)

Versatile and growth-oriented technology professional with experience in software development, infrastructure, and Product management. Focused on building impactful solutions and evolving toward technical leadership.

## EDUCATION

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- University of Connecticut** Storrs, CT, USA
  - B.S.E, Computer Science and Engineering* *Aug 2019 - May 2023*
  - Relevant Courses:* Operating Systems, Data Structures, Analysis Of Algorithms, Machine Learning, Networking, Databases
  - Programs & Clubs:* UConn Honors Program, UConn Upsilon Pi Epsilon, Louis Stokes Alliance for Minority Participation (LSAMP), National Society for Black Engineers (NSBE), UConn Cybersecurity Club, UConn Honors Society

## SKILLS SUMMARY

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- Languages:** Lua, Nix, Python, Bash, awk, C, Powershell
- Tools:** Neovim, Emacs, Docker, Vagrant, Git, SQL, Excel (data analysis)
- Platforms:** Linux, NixOS, OSX, Web, Windows XP/7/10/11, Windows Server 2016
- Certifications:** CompTIA Security+ (In Progress), RHCSA (In Progress), RHCE (In Progress)
- Soft Skills:** Leadership, Effective Verbal and Written Communication Skills, Time Management

## RELEVANT EXPERIENCE

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- Raytheon Technologies** Remote
  - Digital Leadership Development Program Associate* *May 2023 - Present*
    - Cloud Data Engineer (Current Rotation):** Developing enterprise-scale AI solutions for manufacturing
      - \* Implemented MLOps pipeline: Reduced model deployment time by 40% through performance optimization and automated CI/CD workflows
      - \* Optimized data processing: Built Azure-based ETL pipeline that replaced a manual process, reducing processing time by 65%
      - \* Enhanced cross-team collaboration: Created standardized ML model deployment documentation
    - Technical Product Manager (Rotation 2):** Led legacy application modernization initiative
      - \* Accelerated migration timeline: Built a Lotus Notes MVP using the Mendix platform
      - \* Increased collaboration : Improved cross functional communication by utilizing Agile methodologies
      - \* Automated reporting: Created data pipeline that saved 15+ hours of manual work weekly
    - Software Developer (Rotation 1):** Developed compliance automation solutions
      - \* Streamlined document classification: Built PowerShell solution for SharePoint metadata management
      - \* Enhanced data governance: Integrated Term Store taxonomy reducing manual classification errors by 25%
- Raytheon Technologies** Remote
  - Digital Leadership Development Program Intern* *Aug 2021 - May 2023*
    - Worked with Raytheon Technologies Corporate Identity Access Solutions team to facilitate Multi-Factor Authentication (MFA) solutions for over 30,000 employees.
    - Created documentation on Single Sign On(SSO) process.
- UConn Research Assistant** Hybrid - Storrs, CT
  - Undergraduate Research Assistant* *Aug 2021 - May 2023*
    - Worked with Prof. Clay Tabor on porting Community Earth System Model (CESM) to the UConn high performance computing system.
    - Wrote honors thesis on "Creating Reproducible Environments with Nix for Scientific Computing"
- UConn Teaching Assistant** Storrs, CT
  - Undergraduate Teaching Assistant for CSE 3140* *Jan. 2022 - Dec 2022*
    - Assist students in CSE 3140, a cybersecurity lab course, and provide office hours to answer student questions regarding coursework. Skills: Shell Scripting, Linux Configuration, Debugging, Cybersecurity

- **UConn Teaching Assistant** Storrs, CT  
*Undergraduate Teaching Assistant for CSE 1010* *Aug. 2021 - Jan 2022*
  - Assist students in CSE 1010, an introductory computer science course taught in Python and MATLAB, and provide office hours to answer student questions regarding course work.
- **UConn Information Technology Services** Storrs, CT  
*UITS Network Assistant* *Jan. 2021 - Jun. 2021*
  - Duties included troubleshooting network hardware related problems, remotely configuring routers and access points, conducting wireless surveys, and working with Cisco Prime Infrastructure software to manage subnets on the UConn Campus.

## ACHIEVEMENTS

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- **1st Place UConn Senior Design Project** University of Connecticut  
*May 2023* *Project: **HuskyFit Mobile Application***
  - Part of a team that designed a Health and Fitness Mobile Application
  - Utilized React framework, AWS technologies, and other software development tools to simplify the development process
  - Presented the project to industry experts, securing 1st Place in the design competition.
  - Competed against 39 Engineering teams to achieve this recognition.

## PROJECTS

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- **Cross Platform Nix Configuration:** System-wide configuration for Linux, Windows Subsystem for Linux(WSL), and Mac OS X. Tech: Nix, NixOS, Bash, OSX, WSL
- **lookup.nvim:** Lookup up the definition of a word under the cursor in neovim, a terminal text editor. Tech: Neovim, Lua, Rest APIs
- **rawtalk:** (Work in progress) A userspace tool that leverages hidapi library to communicate with a qmk enabled keyboard to perform layout switching and other useful tasks. Tech: Rust, nix
- **Dactyl Manuform 5x6 Keyboard Build:** Built a custom Dactyl Manuform Keyboard, a parameterized, split-hand, concave, columnar, ergonomic keyboard. Skills: Wiring, PCB Soldering, Hardware debugging. Tech: C