Morphy Kuffour

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EDUCATION

- **University of Connecticut** — Storrs, CT, USA
  B.S.E, Computer Science and Engineering; GPA: 3.58 — *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

- **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
- **Soft Skills:** Leadership, Effective Verbal and Written Communication Skills, Time Management

RELEVANT EXPERIENCE

- **Raytheon Technologies** — Remote
  Digital Leadership Development Program Associate — *May 2023 - Present*
  - **Rotation 1**: Software Developer at Corporate Raytheon Technologies
  - **Rotation 2**: Technical Product Manager at Pratt & Whitney
  - **Rotation 3**: Cloud Data Engineer at Pratt & Whitney

- **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.

- **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.

- **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

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

- **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**: (Work in progress) 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, C
- **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