Nicholas Ragland

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Experience

AI Trainer / Consultant *Oct 2024 – Present*
Data Annotation Tech

- Prepared and labeled data for machine learning projects, ensuring accuracy and consistency
- Maintained high data quality standards through rigorous quality assurance checks and validation
- Collaborated effectively with data scientists to understand project requirements and provide labeled data for model development

Data Analyst Intern *May 2022 – May 2024*
Office of Institutional Effectiveness, Webster University

- Built Shiny applications in R using the Tidyverse, and utilized SQL to retrieve and process data
- Developed an interactive heatmap tool that tracked student availability across all departments and times of the day, enhancing event scheduling and enabling departments to host more engaging activities
- Partnered with the Director and Data Analysts to create data-driven solutions that support the Office of Institutional Effectiveness in optimizing scheduling and resource allocation
- Analyzed university program data with Python, Excel, and Power BI, delivering comprehensive insights and reports for stakeholders

Student Software Developer *Dec 2022 – May 2024*
Office of Academic Affairs, Webster University

- Modernized over 20 outdated university forms, integrating advanced features and improving UI/UX for greater usability and efficiency
- Worked closely with Directors and Coordinators to align technical solutions with business requirements
- Designed and implemented complex Excel formulas and VBA scripting to streamline processes and automate data-driven projects
- Contributed to updating and maintaining the academic catalog, identifying and resolving website issues to ensure seamless user experience and operational continuity

President | Secretary | Webmaster**, Computer Science Club** *Nov 2021 – May 2024*
Department of Computer and Information Sciences, Webster University
Awarded Student Organization of the Year 2023

- Expanded the club by introducing Hacking and Coding teams, significantly boosting participation and growing the online community to over 200 members
- Led club teams in university-hosted competitions, including ICPC and regional hackathons, and guided the Hacking team to a top 7% global finish in the online Hack the Box Cyberpocalypse 2024 CTF
- Organized field trips and hosted guest speakers from companies such as Microsoft, NVIDIA, Hubbell, World Wide Technology, Accenture Federal Services, Boeing, and more
- Documented meeting minutes, maintained the club calendar, and managed new member and officer onboarding, ensuring organizational continuity and member engagement

Skills

Programming Languages
Python, C++, R, SQL, JavaScript, TypeScript, HTML, CSS

Libraries & Frameworks
React, Next.js, Gatsby, Pandas, NumPy, Shiny, Plotly, Tidyverse, Tailwind

Tools & Platforms
Git, GitHub, VS Code, Docker, Jupyter (Notebook/Lab), RStudio, Anaconda, Virtual Machines, WSL2, MSYS2, MinGW, Vercel, Firebase, Oracle Apex, APIs, Figma, Adobe InDesign & Acrobat, Microsoft Excel

Security & Networking
Kali Linux, GNU/Linux, Windows Security Hardening, Bash Scripting, PowerShell, Penetration Testing, Wireshark, Command Line Tools, CTF Challenges

Education

Webster University
BS, Computer Science, Emphasis in Cybersecurity, Minor in Data Analytics
Aug 2021 – May 2024

Magna Cum Laude; 3.8 GPA

Projects

C++ Projects
Comprehensive collection of nearly 50 projects, ranging from foundational concepts to advanced data structures

Student Time Analysis Tool
R-based Shiny application designed to visualize student availability and help identify optimal times for involvement

Conscious Chrome Extension
2nd Place Hackathon Winner

Awarded 2nd place among 400+ participants for developing a Chrome extension with React, Tailwind, and TypeScript, analyzing tweets for propaganda, reliability, and diverse perspectives via APIs.