



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- Modernized over 20 outdated university forms, integrating advanced features and improving UI/UX for greater usability and efficiency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.js, Tailwind CSS, Styled Components, Pandas, NumPy, Shiny, Plotly, Tidyverse

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
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.