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 2023 - 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- Modernized over 20 outdated university forms, integrating advanced features and improving UI/UX for greater usability and efficiency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, GraphQL
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, SEO, 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   Webster Groves, MO
BS, Computer Science, Emphasis in Cybersecurity, Minors in Data Analytics   *May 2024*
        Magna Cum Laude; 3.8 GPA

PROJECTS

C++ Projects
GitHub repository featuring 50 personal projects on foundational concepts and advanced data structures, widely used by learners and developers.

Event Optimization Tool
R-based Shiny application that maps the availability of individuals across their schedules, helping organizations identify optimal engagement periods and enhance participation. Features filtering options to tailor event scheduling for specific groups.

Conscious Chrome Extension
Hackathon Winner among 400+ participants
Chrome extension to analyze tweets and provide insights into content reliability, bias, and potential propaganda, helping users navigate social media narratives effectively.