

Nicholas Ragland

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EXPERIENCE

Software Engineer (Contract)

Jan 2025 – Present

Job & Ton LLC | Punch House

- Collaborate with Co-Founders and Managing Partners to conduct in-depth research, gather business requirements, and contribute to the architectural planning of technology solutions
- Consult with vendors to explore integration opportunities and draft detailed reports to ensure alignment with strategic business goals
- Architect Direct-to-Consumer (DTC) API solutions for real-time e-commerce sales tracking and inventory management, streamlining data exchange between internal systems and distributor platforms
- Design back-end synchronization mechanisms that incorporate urgency cues to enhance operational efficiency across workflows
- Partner with brand designers to shape the UI/UX, building responsive, accessible components that align with the brand and elevate user experience

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- Modernized over 20 outdated university forms, integrating advanced features and improving UI/UX for greater usability and efficiency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 maintaining the academic catalog, identifying and resolving website issues to ensure seamless user experience and operational continuity

President, 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

Built and maintained a widely referenced repository of 50+ projects demonstrating foundational algorithms and advanced data structures, supporting developers and learners across the community

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.