

# Nicholas Ragland

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## EXPERIENCE

### Software Engineer (Contract)

Jan 2025 – Present

Job & Ton LLC | Punch House

- Collaborate with founders, designers, and vendors to architect a custom e-commerce platform, contributing full-stack development that translates high-level business objectives into scalable, maintainable systems
- Build responsive, accessible front-end interfaces with custom code, replacing low-code tools to enhance performance, design flexibility, and long-term scalability
- Engineer real-time data sync between internal tools and external platforms, automating sales, inventory, and customer flows across systems
- Develop event-driven infrastructure powering marketing automation, compliance triggers, and personalized post-purchase engagement
- Configure analytics, SEO, and accessibility systems while leading QA, technical documentation, and deployment across complex environments

### 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

### Software Developer Intern

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- Modernized over 20 outdated university forms, integrating advanced features and improving UI/UX for greater usability and efficiency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 & CERTIFICATIONS

**BS, Computer Science - Emphasis in Cybersecurity, Minors in Data Analytics**

May 2024

Webster University

Webster Groves, MO

*Magna Cum Laude; 3.8 GPA*

**Certifications:** CompTIA Security+ (*Expected July 2025*)

## PROJECTS

### C++ Projects

Built and maintained a widely referenced repository of projects showcasing core algorithms and advanced data structures, supporting developers and learners across the programming 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 navigate narratives effectively