

Jon Ledbetter

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Employment Experience

Independent IT Consultant / Full-Stack Developer (Self-Employed) 1998–Present
Chapel Hill, NC

- **Selected engagements:**

- **First Dose Fulfillment** — Front-End Developer (Freelance/Consulting) 2022–2025
 - * Contributed front-end development for the First Dose Fulfillment web portal (React SPA).
 - * Graphics and branding design: created the company logo and delivered production-ready brand assets.
 - * *Public reference:* <https://firstdosefulfillment.com/>
- **Charlotte Center City Partners** — Team Software Project (Coursework) 2021–2022
Charlotte Skyline Lighting Coordination System
 - * Built a full-stack web app to manage skyline lighting requests (event details, color selections, date/time).
 - * Implemented persistence with MongoDB (Atlas) and Mongoose, modeling pending requests vs. approved notifications.
 - * Developed calendar/notifications views and protected areas using Node.js, Express, EJS, Passport.js authentication, and sessions.
 - * Implemented server-side routing and form handling; configuration handled via dotenv.
 - * *Public reference:* https://github.com/jledbe20/CC_Skyline
 - * *Public context:* <https://www.wfae.org/podcast/faq-city/2021-08-10/who-coordinates-the-lights-on-charlottes-skyscrapers>
- **H&R Block Franchise (Tax Startup)** — Independent IT & Network Consultant (Contract)
2014
Montgomery, AL
 - * Sole IT resource; designed and delivered the full office environment end-to-end.
 - * Procured and physically installed network and server hardware; ran cabling, brought up switches/routers, and integrated the office LAN/Wi-Fi.
 - * Built and deployed servers and Windows workstations: OS installation/reinstallation, baseline configuration, software provisioning, and recovery/rebuilds.
 - * Operated the environment day-to-day: troubleshooting, maintenance, and rapid incident triage as on-call IT.
 - * Implemented network-level acceptable-use controls to address productivity and policy requirements.

I.T. and Multimedia Tech, University of Alabama at Birmingham 2017–2018
Birmingham, AL

- Maintained and repaired various multimedia equipment
- Built and distributed Windows- and Linux-based systems
- Troubleshooting in high-stress environments
- Supported users with varying technical backgrounds

Education

University of North Carolina at Charlotte 2018–2024
Master of Science in Cyber Security (Dec 2024)
Graduate Certificate in Information Security and Privacy (May 2023)
Bachelor of Arts in Computer Science (Cum Laude) (December 2021)
Minor – Linguistics

Previous Institutions Attended:

University of Alabama at Birmingham, University of South Alabama, Auburn University of Montgomery, Huntingdon College, Elmore County Technical Center (Computer Engineering)

Technical Skills and Certifications

- **Programming Languages:** Java, JavaScript, Python, ES6, Visual Basic, HTML, CSS, React.js, Angular, Django, Djangular, Shell scripting (Bash/PowerShell), Node.js
- **Tools/Frameworks:** Visual Studio Code (VSCode), Eclipse IDE, npm/yarn, Git, GitHub, Apache, Nginx, Postman, Figma, Docker, LaTeX
- **Cloud/DevOps:** Azure, Azure DevOps
- **Databases:** MySQL, SQLite, MongoDB
- **Certifications:** A+ Certification (CompTIA), Full-stack web development boot camp (2018)

Cybersecurity Projects / Coursework

- Configured and troubleshooted VPN tunneling in lab environments (OpenVPN; manual interface configuration of `tun0`).
- Completed network security labs in controlled environments, including TCP session hijacking and reverse shell exercises.
- Performed packet capture and traffic analysis using Wireshark; applied TCP/IP troubleshooting to diagnose connectivity and session issues.
- Conducted Windows host-level investigation using Event Viewer and related logs to diagnose driver/service failures and system instability.
- Generated and analyzed Windows crash dumps as part of system fault investigation and root-cause troubleshooting.
- Performed malware triage using sandbox-style dynamic analysis tools (e.g., Any.Run; threat.zone) for behavioral inspection in a safe environment.
- Executed data recovery workflows for external media and cross-filesystem transfers (e.g., APFS source media; recovery with Disk Drill; reformat planning to NTFS).
- Built and operated multi-VM security lab environments (VirtualBox; Linux/Kali) to support repeatable experimentation and testing.

References available upon request.