

# Jon Ledbetter

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LinkedIn — GitHub (personal) — GitHub (scholastic)

## Employment Experience

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

*1998–Present*

- **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](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**  
Birmingham, AL

*2017–2018*

- 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 troubleshot 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.*