Thomas R. Freeman Jr.

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EDUCATION

Western Carolina University – *Cullowhee, North Carolina*   *Graduated: May 2025*

Bachelor of Science in Computer Science and Engineering
Minor in Mathematics

RELEVANT COURSEWORK

- Computer Networking
- Operating Systems
- Ethical Hacking
- Linux Tools
- Database Systems
- Android Development
- Software Engineering
- Organization of Language
- Information Security
- Software Development
- Data Structures & Algo
- Computer Ethics

TECHNICAL SKILLS

Languages/Development:	Frameworks:	Profficient in:
Java, C++, JavaScript, C, Bash, Kotlin, Swift, Rust, JavaFX, C#, HTML, CSS, React.js, Node.js, Express.js, EJS, jQuery, Flask, FastAPI	Excel (pivot tables, charts, formulas), Power BI, PostgreSQL, PGAdmin, Azure, Python, TensorFlow, AWS, Docker	Data cleaning, data visualization, reporting, database management, statistical analysis, VMware, Linux, Networking, and Cybersecurity

PROJECTS

Web-Based Data Visualization (Capstone) | *Javascript, React, Tensorflow, PostgreSQL, PGAdmin, HTML/CSS*

- Designed and maintained an active relational database to support dynamic data analysis and reporting.
- Built interactive dashboards using React and D3.js to visualize trends, projections, and other metrics.
- Implemented data filtering, aggregation, and chart rendering to support decision-making scenarios.
- Collaborated in Agile sprints to deliver accurate, validated datasets with 100% data integrity.
- Produced narrative and graphical summaries of findings for faculty and peers.

Multithreaded 4-Player Battleship Simulation | *Rust, Java, TCP Sockets*

- Managed complex state data across multiple concurrent threads, ensuring accuracy and synchronization.
- Identified and resolved data-related issues such as race conditions and inconsistent state updates.
- Demonstrated strong problem-solving and independent task management in a multi-component system.

Language Processor | *C, Bash*

- Built a modular interpreter capable of parsing, validating, and analyzing structured input data.
- Applied error detection and recovery techniques to ensure reliable data processing.
- Demonstrated analytical thinking and precision in handling complex rule-based data structures.
- Lightweight interpreter designed to tokenize, parse, and validate syntactic structure using pure C code.
- Demonstrates mastery of language theory, context-free grammars, abstract syntax trees, and symbol tables.

EXPERIENCE

Sales Associate/Day Stock   *May 2019 – June 2022*

Ingles Markets – Candler, NC

- Managed inventory, verified deliveries, and reconciled invoices.
- Developed efficient systems for tracking stock rotation and product movement.
- Organized and executed daily operational tasks independently, meeting strict timelines.
- Coordinated with multiple departments to ensure compliance with safety and quality standards.

Site Manager   *April 2017 – October 2018*

Zen Tubing – Asheville, NC

- Oversaw daily operations, ensuring accurate tracking of equipment and customer flow.
- Identified operational issues and implemented solutions to improve workflow and safety.
- Delivered clear verbal reports and safety briefings to large groups.

LEADERSHIP & ACTIVITIES

Member: Western Carolina University Drumline   *August 2022 – August 2024*

Responsibilities: Led communication between staff and members, ensuring accurate reporting of progress. Help manage scheduling, equipment tracking, and logistics for a 50+ member section. Coordinate planning for rehearsals, performances, and travel.

Logistics Coordinator - 2022
Student Staff - 2023
Section Leader – 2024

SUMMARY

Detail-oriented Computer Science graduate; experience in analyzing datasets, building data visualizations, and presenting findings through reports and dashboards. Proven ability to manage projects independently, collaborate with cross-functional teams, and translate complex data into clear insights.

Currently living in Candler, NC.
I am seeking in-person, but am available to work remotely.