

# TOBY SNEDEKER

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## EDUCATION

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### NC STATE UNIVERSITY

Bachelor of Science

Expected December 2026

Major in Computer Science; Minor in Brewing Science and Technology

Cumulative GPA: 4.0 | Dean's List 2022-Present

## PROJECTS/SKILLS

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### Pack Pixels Web Application (*HTML, CSS, JavaScript, Docker*)

- Web-based app providing server-hosted photo storage, filter effects, and file sharing.
- Developed REST API routes backed by a MariaDB database and implemented core server and frontend functionality.
- Developed for a final project in a Web Development course with a small team.

### Multifunctional Bot (*Python*)

- Created a custom server bot using the Discord API for personalized use with friends.
- Functions: Play music through voice channel; Report recent game performance of friend's account; Notify of new comic chapter releases.

### Sudoku Solver (*Python, NumPy*)

- Designed a backtracking algorithm that solves any given Sudoku puzzle.

### Other Technical Skills:

- Java, JUnit, Git, C, MATLAB, Machine Learning and Data Analysis

## EXPERIENCE

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### SPORTSMEDIA TECHNOLOGY (SMT)

Quality Assurance Intern

June – November 2025

- Contributed as an analyst on the Broadcast QA team.
- Evaluated multipurpose broadcast software that manages live game data and on-screen graphics for customers like NBC, Amazon, NHL, NFL, etc.
- Thoroughly examined functionality, graphics, and animations through manual testing, logging bugs, and working with developers.

### SIEMENS

Mechanical Design Engineer Intern

Summer 2024

- Worked alongside the Retrofit R&D team, contributing to ongoing projects for industry customers.
- Prepared samples for in-house and third-party certification tests.
- Discussed design decisions for products under development.

### JC RAULSTON ARBORETUM

Visitor Services Team

May 2024 – May 2025

- Supported daily visitor services operations and set up event spaces for private events.

### NCSU WOLFPACK MOTORSPORTS BAJA SAE TEAM

Ergonomics/Composites Lead and Suspension Co-Lead

August 2022 – August 2024

- Designed various custom composite parts with weight savings and driver performance in mind.
- Fabricated high-quality carbon fiber composite parts.
- Assisted suspension team in overall design of suspension geometry to improve maneuverability, driving dynamics, reliability, and off-road capabilities.

### WKNC 88.1 FM RADIO

Volunteer Student Radio DJ

August 2022 – Present

- Host a weekly live radio set for NCSU's non-profit, student-run college radio station.