

# CADU CUDDY

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## EDUCATION

**North Carolina State University**  
BS Computer Science *GPA: 3.9*

Raleigh, NC  
August 2020 - December 2023

## WORK EXPERIENCE

**Amazon**  
*Software Engineer Intern*

Austin, TX  
May 2022 - August 2022

- Incoming SDE Intern for Summer 2022

**Liquid Rocketry Lab**  
*Student Software Engineer*

Raleigh, NC  
August 2020 - Present

- Member of programming team developing Rust based compiler and custom testing language for a suborbital rocket CPU, used by team of 100+ student engineers.
- Implemented complete binary data disassembler and test-file parser to ensure valid test-file configurations.
- Automated 20 hour per month process of test-file creation with Python.

**Osmosis AI**  
*Machine Learning Intern*

Austin, TX  
June 2019 - August 2019

- Designed, trained, and executed Tensorflow machine learning models for Waste Management clients, detecting garbage overflow in dumpsters with an average 87% accuracy.
- Saved time for future teams/interns by identifying an intricate process for an internal CI tool and writing docs.
- Debugged frontend UI and improved load speed by 25% from 20ms to 15ms.

## PROJECTS

**Rocket Engine Testing Language & Compiler** *Rust, Python*

Compiler for a custom rocket engine testing language written for easy use by technical/non-technical student engineers in the Liquid Rocketry Lab.

**Bedbreakr** *React, Javascript, AWS Amplify*

Blazing fast Minecraft Bedwars player statistics dashboard made with the Hypixel public API.

**Among Us Door Puzzle Tool** *Python, OpenCV, NumPy*

Computer vision app that runs alongside the game "Among Us" and solves randomly generate locked door puzzles for players.

**Spotify Web Player** *React, Javascript, Express, Node.JS*

Browser-based music player web app powered by the Spotify API that uses a custom REST API to handle auth and token refresh.

**The Zillow Game** *React, MongoDB, Express, Node.JS*

Multiplayer browser game where players compete to accurately guess home prices on Zillow-listed homes.

## SKILLS

Programming Languages:	Java, Python, Rust, Javascript, C
Libraries & Frameworks:	React, Node.JS, Express, MongoDB
Applications & Tools:	Git, Jira, VS Code, Agile Methodologies

## AWARDS

**NCSU Dean's List**

NC State University  
May 2021