CADE CUDDY

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EDUCATION

North Carolina State University   Raleigh, NC
BS Computer Science *GPA: 3.9*   August 2020 - December 2023

WORK EXPERIENCE

Amazon   Austin, TX
Software Engineer Intern   May 2022 - August 2022

- Incoming SDE Intern for Summer 2022

Liquid Rocketry Lab   Raleigh, NC
Student Software Engineer   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   Austin, TX
Machine Learning Intern   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