

CADU CUDDY

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EDUCATION

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

Raleigh, NC
Aug 2020 - Dec 2023

EXPERIENCE

Amazon

Software Engineering Intern

Austin, TX

May 2023 - Aug 2023

- Spearheaded the utilization of LLM technology for anomaly detection in supply chain data, delivering a notable 84% anomaly detection rate
- Architected generative AI anomaly detection system using embeddings, Python, LangChain, and various AWS services
- Deployed service via CI/CD pipeline & worked with cross-functional team of scientists & engineers to successfully integrate LLM solution with production data

Amazon

Software Engineering Intern

Austin, TX

May 2022 - Aug 2022

- Designed, implemented, and deployed full-stack internal computer vision classification feedback system, reporting CV misclassification data on a 100,000,000+ events/month API
- Led the development of an internal web application feature using React, Typescript, NodeJS, and DynamoDB to provide information about misclassified CV events
- Built scalable backend data pipeline capable of analyzing CV classifications on 10,000,000+ Ring Doorbell events using Go & AWS
- Launched feature on production environment, improving model accuracy by 9%

Liquid Rocketry Lab

Programming Lead

Raleigh, NC

Aug 2020 - Present

- Led team of 10 student developers on multiple projects, including: a compiler, full-stack mission control dashboard, and embedded microcontroller firmware suite
- Implemented complete binary data disassembler and test-file parser in Rust to ensure valid compiler output, saving 20 engineering hours / week
- Built high performance mission control UI using React complete with realtime telemetry visualization and an InfluxDB time-series database for persistence

PROJECTS

Rocket Engine Testing Language & Compiler *Rust, Python*

Contributor on a compiler for a custom rocket engine testing language created for testing and guiding suborbital rocket engine.

CSGO Case Financial Calculator *React, TypeScript, AWS Lambda, PostgreSQL, Next.js*

<https://www.casecalculator.app/>

Developed a CS:GO unboxing logistics calculator web app leveraging real-time Steam market data with a wealth of features for 1,400+ weekly users

Automated Resume Anonymizer *React, JavaScript, CockroachDB, Python*

Led design & development of web app that facilitates fair hiring practices through automated anonymization of resumes. Won 3rd in the 'Inequality' track at HackDuke 2022.

Distributed P2P-CI File Sharing System *Python*

Implemented a hybrid peer-to-peer and client-server distributed system, utilizing socket programming and multithreading for concurrent communication and file sharing among networked nodes.

SKILLS

Programming Languages:	Python, TypeScript, Java, Rust, Golang, C, HTML/CSS, SQL, JavaScript
Libraries & Frameworks:	React, tRPC, Next.js, TailwindCSS, Node.js, Prisma, pandas
Developer Tools:	Git, Docker, UNIX, AWS, Figma, Terraform, MongoDB, Jira, Kubernetes

AWARDS

Advent of Code Day 4 - 54th Place

Stayed up until midnight to finish 54th in the world on Day 4 of AoC

Advent of Code

Dec 2022