CADE CUDDY

Raleigh, NC · cadecuddy@gmail.com · github.com/cadecuddy

EDUCATION

North Carolina State University — Raleigh, NC
BS Computer Science *GPA: 3.9* — Aug 2020 - Dec 2023

EXPERIENCE

Amazon — Austin, TX
Software Engineering Intern — 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 scienteists & engineers to successfully integrate LLM solution with production data

Amazon — Austin, TX
Software Engineering Intern — 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 — Raleigh, NC
Programming Lead — 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 — Advent of Code
Stayed up until midnight to finish 54th in the world on Day 4 of AoC — Dec 2022