

ALISA LU

Software Engineer Intern

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📍 College Station

EXPERIENCE

Software Engineering Intern

CarMax

📅 06/2024 - 08/2024 📍 Dallas, TX

- Worked with Docker and implemented Kyverno policies that ensured container security to aid in rolling out Kubernetes clusters to CarMax stores across the nation, replacing legacy technologies
- Wrote and applied Kyverno policies as well as Kubernetes deployments using YAML scripts (IaC)
- Scanned container registries to ensure best security practices in Kubernetes deployments
- Wrote documentation for the company on Venafi's use of Kubernetes to manage SSL/TLS certificates
- Published a step-by-step guide on kubectl setup and configuration to connect to desired Kubernetes cluster for the team

Software Engineering Intern

Yat Electrical Appliance

📅 06/2023 - 07/2023 📍 Remote

- Worked with the IT department as well as PMC departments to store and retrieve product and shipment information in the company database using Oracle Database and MySQL

EDUCATION

B.S. Computer Science, Statistics Minor

Texas A&M University

📅 08/2022 - 05/2026 📍 College Station, TX

- President's Endowed Scholarship, National Merit Finalist Scholarship, BASF Co. National Merit Scholarship recipient
- Craig and Galen Brown Engineering Honors student
- Related coursework: Foundations of Software Development, Design & Analysis of Algorithms, Operating Systems, Data Structures and Algorithms, Computer Organization, Programming Languages

GPA

4.0 / 4.0

PROJECTS

Y86 Assembly Processor

Built a five-stage assembly processor with logic (logisim) for the Y86 assembly language (simplification of X86 assembly) with instructions such as movq, pushq, popq, call, ret, and OPq.

- Successfully tested with executing C programs including bubble sort and palindrome checker

Howdy Manage

Developed an online portal for small businesses to track their finances: business spending and earnings.

- Built website with HTML and CSS
- Main roles were developing the data processing and backend logic of the website using JavaScript and Python.

GitHub Repository Tagging Interface

Created a graphical user interface to show relationships among different teams' GitHub repositories at CarMax.

- Interactive interface updated in real time using the GitHub API and showed which teams were parts of which other teams
- Showed the individual repositories owned by each team and sub team
- Main role was working on the backend with Python

SKILLS

Java, C++, Python, HTML, Haskell, R, JavaScript/TypeScript, Docker, Kubernetes, Microsoft Azure, Git, GitHub, SQL, Oracle DB, Azure Container Registry

EXTRACURRICULAR

Society of Women Engineers

Aggie Competitive Coding Club

Asian Presidents' Council

SUMMARY

I am a third year Computer Science student at Texas A&M University with seven years of programming experience. I am a quick learner, efficient worker, and highly motivated to contribute to my projects with my team. I have had two summers of previous internship experience where I experienced practical application of my skills, and I am eager to bring these skills to your company!