

Abel Lu

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EDUCATION

North Carolina State University

Bachelor of Science in Computer Science

GPA: 4.000

Jun 2022 - Dec 2025

Relevant Coursework: Software Development Fundamentals in Java, Introduction to Data Science in Python
In Progress: Discrete Mathematics for Computer Science, C / Software Tools, Data Structures and Algorithms

Campus Engagement: Computer Science Teaching Assistant, Engineering Village, Japan Club Web Developer

WORK EXPERIENCE

Platform Engineering Intern

Renaissance Computing Institute (RENCI)

Chapel Hill, North Carolina

Aug 2023 - Present

- Optimize software development processes by creating an **internal developer platform**, which provides self-service capabilities to software developers at RENCi
- Leverage knowledge in Docker, Kubernetes, and large-scale computing infrastructure

Software Engineering Intern

Lowe's Companies, Inc.

Charlotte, North Carolina

May 2023 - Aug 2023

- Optimized touchpoint management processes by developing a centralized UI, reducing downtime by an average of **1.5 hours per unit for over 70000 POS units** during updates
- Streamlined performance monitoring and issue diagnosis by creating a metrics dashboard, resulting in a **30% faster response** time to major issues
- Leveraged knowledge in React, Redux, Java, Git, Elasticsearch, Prometheus, Grafana, Docker

Engineering Extern

Cisco Systems, Inc.

Raleigh, North Carolina

Jun 2021 - Jul 2021

- Designed a mobile app to streamline medication delivery in retirement homes
- Won **1st place out of 8 teams** in a capstone competition judged by Cisco employees
- Leveraged knowledge in Figma, Cisco Meraki, Cisco DNA spaces, UI/UX design

PROJECT EXPERIENCE

Osu! Bot - Cloud-Hosted Discord Bot

May 2021 - Present

- Developed a Discord bot that shows osu! scores with graphs and statistics
- Built **API wrappers** and managed a cloud-hosted **PostgreSQL** database
- Utilized: Python, APIs, SQL, Linux CLI, Cloud Deployment, Async Programming

Digital Portfolio - Personal Website

Feb 2023 - Present

- Constructed a hash-routed digital portfolio page with a functional contact form
- Created a personal blog page to keep track of my professional development
- Utilized: Responsive Web Design, JavaScript, React, HTML/CSS, EmailJS

Jimmy's Quest For Condiments - Educational Video Game

Jan 2023 - Apr 2023

- Programmed an education platformer game in GameMaker Studio 2, winning **1st place** in a competition judged by employees from Microsoft, Google, and Cisco
- Utilized: GameMaker Studio 2, OpenGL, Game Scripting, Asset integration

SKILLS

Languages: *Proficient* - HTML/CSS, Java, JavaScript, Python, SQL / *Familiar* - C, C#, Go, R

Libraries/Tools: Bitbucket, Docker, Git, GitHub, Grafana, Kubernetes, Prometheus, React, Redux, Java Spring

Collaboration: Agile, Atlassian Suite, Waterfall, Jira, Scrum, Kanban, CI/CD