Abel Lu

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EDUCATION

North Carolina State University

Bachelor of Science in Computer Science

Current GPA: 4.000 Aug 2022 - May 2026

EXPERIENCE

Lowe's Companies, Inc.

Software Engineer Intern

• Selected to become an intern as part of the inaugural cohort of the Lowe's Exploratory Software Engineering Internship

Charlotte, North Carolina May 2023 - Aug 2023

> Cary, North Carolina Feb 2023 - Present

Green Hope High School Drumline

Drumline Instructor

- Oversee and conduct drumline warmup routines and rehearsals
- Provide feedback to members to foster their improvement musically and visually, resulting in an increase in competition score from 72 to 85 since my hiring
- Coordinate logistics on performance days to a result of 0 points deducted in penalties

Cary, North Carolina Apr 2022 - Apr 2023

Remote Position

Nov 2020 - Nov 2021

Bapu Teahouse

Cashier and Barista

- Work 10-20 hours per week outside of school hours
- Train new hires to ensure a smooth transition into the workplace
- Greet customers, process cash and credit orders, prepare food and drinks

Robotics For All

Teacher Coordinator, Lead Instructor

- Oversaw the performance of a total of 8 lead instructors and 6 teaching assistants
- Instructed classes of up to 20 students in Python programming with a 96% pass rate
- Prepared teaching assistants for lead instructor roles: 5 out of my 6 teaching assistants went on to become lead instructors

Raleigh, North Carolina Jun 2021 - Jul 2021

Cisco Systems, Inc.

Cisco High Summer Extern

- Designed a mobile app solution to improve medication delivery in retirement homes
- Collaborated in a team of 12 members to develop a notification system for caregivers
- Won 1st place out of 8 teams in a capstone competition judged by Cisco employees

ACTIVITIES

North Carolina State University Drumline

Snare Line Member

Raleigh, North Carolina Aug 2022 - Present

- Placed on snare line as the result of a successful audition
- Rehearse 5+ hours weekly to prepare ensemble music
- Perform at various athletic and charity events attracting crowds upwards of 50,000 audience members

SKILLS & INTERESTS

Languages: C, C#, HTML/CSS, Java, JavaScript, Python, R, SQL

Libraries: AsyncIO, AIOHTTP, Discord.py, ReactJS, NumPy, Matplotlib, pandas, JUnit, Java Collections, dplyr

Interests: Artificial Intelligence, Automation, Data Science, DevOps, Testing, Software Engineering

PROJECTS

Osu! Bot | Discord.py, AsyncIO, PostgreSQL, Matplotlib, AIOHTTP

May 2021 - Present

- Developed a Discord bot that displays osu! scores with informative graphs and statistics
- Built custom wrappers to interact with the osu!, Akatsuki, and Ripple APIs in Python
- Utilized AsyncIO to handle requests from multiple users concurrently with low blocking
- Deployed bot on DigitalOcean and implemented custom logging to monitor performance
- Manage a cloud-hosted PostgreSQL database on NeonDB that stores user preferences

Portfolio Website | ReactJS, HTML, CSS, EmailJS, React-Router-Dom

Feb 2023 - Apr 2023

- Developed a hash-routed digital portfolio page to showcase my personal projects
- Created a functional contact form with EmailJS to allow potential hirers to contact me
- Implemented fade transitions between routes for a smooth user experience

Jimmy's Quest For Condiments | GameMaker Studio 2

Jan 2023 - Apr 2023

- Collaborated in a Agile team of four to design and create an educational two-dimensional platformer video game in GameMaker Studio 2
- Led the programming and implementation of our custom assets into a playable game
- Won first place with this project at NC State's First-Year Engineering Design Day

PokéBot | discord.py, AsyncIO, PostgreSQL

Nov 2020 - Feb 2021

- Designed and created a Discord bot that allows user to play a Pokémon-collecting game
- Deployed bot on Heroku using Procfile, requirements.txt, and runtime.txt
- Stored user collections in a remote PostgreSQL server on Heroku

PROFESSIONAL CERTIFICATES

Certified Entry-Level Python Programmer Cisco Networking Academy, Python Institute

Introduction to Programming Using Python Microsoft Learn