Abel Lu

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EDUCATION

North Carolina State University   GPA: 4.000
Bachelor of Science in Computer Science   Aug 2022 - May 2026

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,
Linux Users' Group, Pack Drumline

WORK EXPERIENCE

Software Engineer Intern   Charlotte, North Carolina
Lowe's Companies, Inc.   May 2023 - Aug 2023
- Optimized software updates and reverts by developing an IT management UI, reducing
  downtime by an average of 1.5 hours per unit for over 70000 POS units
- 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

Platform Engineer Intern   Raleigh, North Carolina
Renaissance Computing Institute (RENCI)   Aug 2023 - Dec 2023
- Automate software deployment processes by developing an infrastructure-as-a-service
  application which will accelerate research at RENCI
- Leverage knowledge in Docker, Kubernetes, and large-scale computing infrastructure

Engineering Extern   Raleigh, North Carolina
Cisco Systems, Inc.   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 an auto-sharded Discord bot that shows osu! scores with graphs and statistics
- Built asynchronous 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 - Apr 2023
- Constructed a hash-routed digital portfolio page with a functional contact form
- Implemented fade transitions between routes for a optimal viewing experience
- Utilized: Responsive Web Design, JavaScript, React, HTML/CSS, EmailJS, GitHub Pages

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, Cisco, and IBM
- Utilized: GameMaker Studio 2, OpenGML, 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, Jenkins, Kubernetes, Prometheus, React, Redux, Java Spring
Collaboration: Agile, Atlassian Suite, Waterfall, Jira, Scrum, Kanban, CI/CD