

ALEC (ANH) NGO

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EDUCATION

BEREA COLLEGE | Full Scholarship for Four Years of Undergraduate | Dean's List **Berea, Kentucky**
GPA: 3.93 | **Major: Computer Science** | **Minor: Mathematics and Economics** Jan 2021 - May 2024

CODEPATH | *Technical Interview Prep Course* **Remote**
The 12-week course helps students with technical interviews by solving data structures & algorithm problems

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C++
- **Database:** PostgreSQL, MySQL
- **Web Development:** HTML/CSS, Bootstrap
- **Developer Tools:** Git Bash, GitHub, Linux
- **Data Analysis and Visualization:** Jupyter Notebook, NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scipy, Statsmodels
- **Machine Learning:** Sklearn, TensorFlow, Keras, Supervised/Unsupervised Learning, Feature Selection, Resampling
- **Statistics:** Hypothesis Testing, A/B Testing, Granger Causality Testing

PROFESSIONAL EXPERIENCE

AMAZON WEB SERVICES (AWS) **Arlington, VA**
Software Development Engineer Intern May 2023 - Aug 2023

- Incoming SDE Intern at AWS Systems Manager.

THE OFFICE OF SUSTAINABILITY | BEREA COLLEGE **Berea, KY**
Data Tracking and Analysis Coordinator - berea.edu/sustainability/dashboard Aug 2022 - Present

- Discovered discrepancies in 9-year GHG Inventory data, leading 16 departments in rigorous recalculations and automation processes to improve data accuracy and integrity.
- Managed technical projects and promoted sustainability programs, building a sustainability map with Google My Maps and creating a sustainability dashboard with Power BI.

AGENT-BASED MODELING RESEARCH | BEREA COLLEGE **Berea, KY**
Research Assistant Intern | shorturl.at/ijlou May 2022 - Feb 2022

- Won "People's Choice Impact Award" at Tapia Conference 2022 for developing new mesophilic agents.
- Generated 40k+ time series datasets by redesigning three packages from functional to OOP, applying Design Patterns for maintainability, scalability, and reusability.
- Improved research efficiency by one month by integrating Data Manipulation and Visualization tools, aiding in publications and statistical testing implementation.

COMPUTER SCIENCE DEPARTMENT | BEREA COLLEGE **Berea, KY**
Teaching Assistant Jan 2022 - May 2022

- Collaborated with 20+ TAs to teach 300+ students on Python-related topics, creating new assignments, rubrics, and grading students' work, as well as evaluating their overall performance during the semester.

RELEVANT EXPERIENCE

CERVICAL CANCER RESEARCH TEAM **Remote**
Team Lead - ML + Web Developer | github.com/ahnngo/cervical-cancer-project May 2022 - Nov 2022

- Led a team of 3 in student-oriented Cervical Cancer research using supervised learning techniques.
- Developed and maintained a cervical tracking web app with 200+ users in the first week using Python, Streamlit, and supervised learning methods.
- Achieved 98.18% accuracy in cancer detection and improved reliability with Feature Selection and SVM implementation.
- Improved precision from 0% to 99% by utilizing the Borderline-SMOTE resampling method.

AWARDS & HONORS

- People's Choice Impact Award for Opinion Dynamics Research by STARS Computing Corps Sep 2022
- Gold Medals in Chemistry Olympic April Ho Chi Minh City Contest for two consecutive years Apr 2018 & 2019