



Portfolio

## IOSE SEQUEIRA

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### EDUCATION

#### University of Kentucky

Lexington, KY

**Bachelor of Science in Computer Science | GPA: 4.0**

May 2025

Minors in Statistics and Mathematics

Relevant Coursework: Mathematical Intro to Deep Learning, Algorithm Design/Analysis, Discrete Math, Systems Programming, Intro to Software Engineering, Probability, Matrix Algebra, Statistical Methods and Motivations.

### INTERESTS AND SKILLS

**Machine Learning:** Python, R, Numpy, TensorFlow, Keras, Neural Networks, Deep Learning

**Data Science:** Python, Pandas, Numpy, Matplotlib, MySQL

**Software Engineering:** Java, C++, Python, Git, Java Server Faces, HTML, CSS, MySQL

### PROFESSIONAL EXPERIENCE

#### University of Kentucky- Neural Interfaces and Signal Processing Lab

Jan 2024- Present

Machine Learning Research Assistant

- Engaged in an undergraduate research project focused on the replication and understanding of the paper "DeepSOZ: A Robust Deep Model for Joint Temporal and Spatial Seizure Onset Localization from Multichannel EEG Data."
- Participating in structured learning experiences and courses to deepen understanding of machine learning concepts, applications, and concurrently gaining proficiency in fundamental tools and technologies.
  - Python, Linear Regression, Logistic Regression, Neural Networks, Reinforcement Learning
- Optimized model parameters for a camera and drone system with facial detection and tracking capabilities.

#### University of Kentucky- Department of Forestry and Natural Resources

Data Analysis Research Assistant

August 2023 – Jan 2024

- Conducted data cleaning and error correction processes to mitigate systematic uncertainty in a year's worth of climate change data collected from 20 tree populations in Costa Rica.
- Utilized data analysis tools (R and Excel) to clean, preprocess, and analyze datasets.
- Leveraged R packages to implement advanced computational techniques for identifying and correcting potential sources of systematic uncertainty within the data.
- Identified areas for data quality improvement and participated in discussions to refine data collection methods.

#### ERP Consulting Group, San Jose, Costa Rica

May 2023 – August 2023

Software Engineering Intern- Full-Stack Web Development and Database Management

- Developed a web app using MySQL (database), Java (server), and XHTML and JSF (front-end).
- Designed and executed MySQL schema for optimal data storage and retrieval.
- Linked front-end and back-end via JSF for dynamic user interactions and content rendering.
- Worked closely with stakeholders to gather requirements and translate them into technical specifications, ensuring alignment between business needs and technical implementation.

#### University of Kentucky- College of Arts and Sciences

August 2022 – Present

Desktop Support Specialist

- Provided technical support and troubleshooting for university staff and faculty.
- Managed and maintained an inventory of hardware and software assets.
- Demonstrated excellent customer service skills.

### PROJECTS, CERTIFICATIONS AND EXTRACURRICULARS (josesequeira.com)

- **Projects:** Quizlet++ (C++, Java, MySql)
- **Certifications:** Machine Learning Specialization by Stanford and DeepLearning.AI, Google Data Analytics Certificate (🏆), Mathematical Thinking in Computer Science, Introduction to Java and OOP.
- **Extracurriculars:** Junior Tennis Player (National Champion and top 2000 globally), Model United Nations (Outstanding Delegate-USA-Security Council).