

JOSE SEQUEIRA

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EDUCATION

University of Kentucky Bachelor of Science in Computer Science

Lexington, KY *May 2025*

Minors in Statistics and Mathematics

GPA: 4.0

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

PROFESSIONAL EXPERIENCE

University of Kentucky-Neural Interfaces and Signal Processing Lab

Jan 2024- Present

Machine Learning Research Assistant

 Participating in structured learning experiences and courses to deepen understanding of machine learning concepts, applications, and concurrently gaining proficiency in fundamental tools and technologies.

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, demonstrating a strong problem-solving and analytical mindset.

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.

SKILLS AND INTERESTS

Machine Learning: Python, R, Keras, Numpy, Neural Networks and Deep Learning

Data Science: Python, Pandas, Numpy, Matplotlib, mySQL

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

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).