Portfolio

JOSE 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 ($\frac{5}{8}$), 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).