# William Miras

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## EDUCATION

**California State University, Sacramento**                                                        August 2024 – Dec 2026
*Bachelor of Science in Computer Science*, GPA 3.8
Coursework: Data Structures and Algorithms Analysis, Software Engineering, Database Management Systems, Statistics

**Los Rios Community College, American River**                                                  August 2021 – May 2024
*Associates of Science in Mathematics and Computer Science*
Coursework: Object-Oriented Programming, Data Structures and Algorithms, Linear Algebra, Discrete Mathematics

## TECHNICAL SKILLS

**Languages:** Python, C++, C, Java, MySQL
**Developer Tools:** Git, GitHub, AWS, Docker, Arduino, Jupyter, Vercel
**Libraries & Frameworks:** TensorFlow, PyTorch, pandas, NumPy, scikit-learn, LangChain, Pydantic

## PROJECTS

**Data Science Agent |** *Python, LangChain, Pydantic, AWS, Docker, Vercel*                      May 2025 – Present
- Agentic AI to assist a Data Scientist find and analyze datasets based on natural language project descriptions
- Hosted on AWS Lambda using Docker and AWS ECR, proxied via API to Vercel with frontend development by V0
- Leveraged LangChain and OpenAI's GPT-4o for query understanding and processing
- Debugging done with AWS CloudWatch, LangGraph, and runtime logs on Vercel
- Improved results by 80% and latency by 0.5s through prompt engineering and optimizing tool integration

**WholeHeart |** *Python, AWS, GitHub*                                                          March 2025 – Present
- Researched models and ways to improve Stanford's EchoNet-Dynamic Cardiac Function assessment model
- Utilized AWS's EC2 service on a Deep Learning AMI Neuron in Ubuntu with an NVIDIA A10G GPU for training
- Conducted research on ejection fraction calculations and echocardiogram analysis to improve model accuracy

**SecureCoin Sentinel |** *Python, PyTorch, pandas, Numpy, GitHub*                          February 2025 – March 2025
- Led AI modeling team at Sacramento State's AI Hackathon, improving hybrid model accuracy by 30% through selection and integration of FNN, RNN, and CodeBERT
- Streamlined model development and data analysis to meet tight deadlines, delivering a functional prototype
- Secured 2nd place victory in the Finance Division through a working and accurate prototype

**Wildfire Risk Assessment Model (WRAM) |** *Python, TensorFlow, pandas, Jupyter*          October 2024 – October 2024
- Achieved 2nd place, a $500 prize, and $5000 AWS Credits in the Sacramento State University's AI Hackathon
- Analyzed Sentiel-2 Satellite imagery to train a Convolutional Neural Network using the U-Net architecture
- Improved model to 92% accuracy by analyzing results in Juptyer Notebook and utilizing TensorFlow tools

**Autonomous Firefighting Robot |** *C++, Arduino, Git*                                     August 2024 – September 2024
- Worked on the Embedded Systems Programming team programing ultrasonic sensors using Arduino and a breadboard
- Improved accuracy by 60% through outlier reduction and data averaging with ultrasonic sensor data
- Finished tasks timely to help the team test results and quality of the robot before the competition

## CAMPUS INVOLVEMENT

**Vice President -** Data Science Club - Sacramento State University                            August 2024 – Present
- Organized workshops, projects, and events to foster data science skills among members
- Guided project development, focusing on neural networks and data analysis techniques
- Learned skills necessary to analyze data, neural network models, and refine models and data to desired project needs

**Member -** Competitive Robotics Team - Sacramento State University                            August 2024 – Present
- Developed embedded systems using C++ and Arduino, enhancing skills in real-time sensor integration
- Attended optional club workshops to advance skills in software engineering, development, and embedded systems

## EXPERIENCE

**In-N-Out Burger, Davis, CA –** *Level 6 Associate*                                            April 2021 – Present
- Exceptional customer service in a high-stress environment, earning multiple awards for leadership and performance
- Trained associates to enhance operational efficiency, teamwork, and improve performance

**USSF Soccer Referee, Northern California** - *Pre-MLS Soccer Referee*                     January 2015 – January 2023
- Led referee teams, managed conflicts, and trained officials in high-stress environments, ensuring smooth management
- Responsible for leading and managing teams of referees and reporting back to site administrators