Wendolee Villegas

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Education

University of Texas at Arlington, Arlington TX December 2025
Bachelor of Science in Computer Science

Projects

'UTA Grades' | *GitHub Codespace, HTML, Tailwind CSS, Next,js, Firebase, Figma* September 2024 – Present

- Building a cross-functional professor rating website using real data from 2017 onward with a team of 20 developers
- Self-assign GitHub issues, resolve them, and submit pull requests for leader approval to ensure smooth integration
- Improving UI through tech stacks, creating responsive, user-friendly designs using Figma
- Slated to be in development for an academic year, targeting launch before Spring 2025 registration

Image Segmentation - Students in Computing and AI | *PyTorch, U-Net* September 2024 – Present

- Collaborating with team of 5 peers under PhD supervision to develop 3 image segmentation prototypes
- Conducting self-research on neural network-based segmentation techniques to deepen personal expertise by 50% beyond previous personal experience through testing and refinement
- Designing U-Net models for leaf segmentation to achieve 80-90% accuracy in leaf type classification
- Utilizing PyTorch to create image segmentation models, progressing through an entire 10-week project lifecycle

Crop 'n' Drip - HackUTA2024 | *Python, C, Microsoft Azure, Azure Service Bus* October 2024

- Participated with a team of four to solve water consumption challenges, securing 3rd place out of 122 teams to deliver a complete solution under the challenging 24-hour project lifecycle for a hackathon
- Configured Azure cloud communication with a Raspberry Pi using a publisher/subscriber model, allowing message reception with a 3-second latency for efficient command delivery
- Constructed a relay control system on the Raspberry Pi for motor automation, enabling farmers to send commands that activate the relay with a 1-second response time and visual and sound cues for reliability
- Applied the OpenWeatherMap API for live weather updates (location, temperature, humidity) to be used on a web feed, enhancing real-time irrigation data for informed decisions

Simple Unix Shell | *C, GitHub Codespace* September 2024

- Created a command line interpreter in C to further understand shell architecture and process management
- Built features like command execution, pipelining, and I/O redirection, creating a responsive and efficient shell
- Implemented file I/O and error handling to support both interactive and batch modes for user input

Pattern Recognition - OurCS@DFW | *Matplotlib, Keras, Tensorflow, Google Colab* February 2024

- Developed basic machine learning techniques consisting of neutral networks, and nearest neighbor classification
- Implemented using Python and Google Colab, focusing on optical character recognition and digit recognition
- Gained experience with Keras and Tensorflow to train neural networks for pattern recognition applications
- Trained model in a supervised, professor-led environment on the MNIST dataset, achieving 97% accuracy

Experience

College at Home Advisor May 2023 – July 2023
Apple *Remote*

- Delivered quick technical remote support to customer's devices which included iOS, iPhones, and iPads
- Efficiently managed customer inquiries, handling 15+ calls daily within a minute of each other
- Adapted swiftly to new software updates and tools, ensuring proficiency in the latest Apple products and services
- Utilized problem-solving skills to diagnose and resolve issues, earning 80%+ customer satisfaction ratings

Technical and Soft Skills

Spoken Languages: English, Spanish
Programming Languages: C, Python, Java, C++
Developer Tools: GitHub, Visual Studio Code, Sublime Text, Google Colab

Organizations

Association for Computing Machinery, Member

Society of Women Engineers, Member

Society of Hispanic Professional Engineers, Member

Students in Computing and Artificial Intelligence, Member