Jordi Ramos

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EDUCATION

The University of Texas at Austin, Austin, TX — Dec 2023
Master of Science in Computer Science with Thesis, GPA: 3.875

Brigham Young University, Provo, UT — August 2021
Bachelor of Science in Computer Engineering, GPA: 3.79

SKILLS

Languages: Spanish (Native), Mandarin Chinese (Native), English (Fluent), French (Professional)

EXPERIENCE

Microsoft, Redmond, Washington — Jan 2024 - Present
Software Engineer - Developer Division

- Collaborating with the .NET runtime and libraries team to provide APIs used by tooling and generators, as well as working hand in hand with the C# compiler team to enhance the Visual Studio experience for Razor users.

UT Austin Computer Vision Research Group, Austin, Texas — Dec 2022 - Dec 2023
Graduate Research Assistant **-** Supervised by Dr. Kristen Grauman

- Conducted research on audio-visual navigation by learning to predict an acoustic field.
- Collected hundreds of thousands of data points by taking shortest path trajectories on SoundSpace 2.0.
- Implemented a U-net and a transformer model by taking the STFT of audio input and depth image as visual input and predicted acoustic fields with MSE loss smaller than 0.034.

Microsoft, Redmond, Washington — May 2022 - Aug 2022
Software Engineer Intern - Machine Learning Research

- Implemented the grid-search algorithm from Fairlearn in ML.NET to improve fairness among groups in training.
- Developed a reduction algorithm in C# using the Lagrange multiplier to decrease the loss function while maintaining fairness constraints specified for a dataset.
- Improved the fairness metrics in logistic regression for binary classification by 30%.

Flapmax (AI startup), Austin, Texas — Oct 2021 - May 2022
Machine Learning Research Intern

- Decreased inference time on deep neural network models by using OpenVino and ZenDNN.
- Collaborated with faculty members and students from Tennessee State University.
- Served as unofficial team lead, planned and assigned tasks, mentored two interns, acted as project presenter.

BYU Configurable Computing Lab, Provo, UT — Apr 2020 - Aug 2021
FPGA Hardware Undergrad Research Assistant

- Maintained and optimized a Python library (SpyDrNet) for FPGA research.
- Contributed to a flexible framework that analyzes and transforms netlists, funded and used by Google.
- Decreased the lines of code required by users by up to 50%.

PUBLICATIONS

- **Sim2Real Transfer for Audio-Visual Navigation with Frequency-Adaptive Acoustic Field Prediction**
  - Accepted to CVPR Embodied AI workshop 2024, pending for IROS 2024.
- **Acoustic field prediction for continuous audio-visual navigation with interaction-free learning**
  - Published to UT, Austin database as my Master's Thesis.

SERVICE AND AWARDS

- 2024: Reviewer for IROS.
- 2021: First place in the 2021 IBM Qiskit Fall Fest hackathon at UT, honorable mention in the global hackathon.
- 2021: Top 30 World finalists for the annual University Mars Rover Society competition.
- 2018-2020: Full-time Missionary for the Church of Jesus Christ of Latter-day Saints in Montreal, Canada.