

JACOB VALDEZ

Machine Learning Engineer and Researcher

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🌐 https://github.com/JacobFV in linkedin.com/in/jacob-f-valdez

EDUCATION

B.S. Computer Science

The University of Texas at Arlington

📅 June 2020 – Present

GPA 3.7/4.0; graduate Aug 2022

A.A.S. in Mathematics

Navarro College

📅 Sept 2014 – May 2018

GPA 3.9/4.0; 85 hours taken

EMPLOYMENT

Developer

ITLab

📅 June 2021 – Present

📍 Arlington TX

- Collaborate with research group to develop and operate statistical visualization tool CoWiz

Developer

UTA Social Work

📅 June 2021 – Present

📍 Arlington TX

- Maintain, enhance, and operate mobile app and cloud infrastructure for social work research

Crew Trainer

McDonald's

📅 May 2016 – Mar 2020

📍 Midlothian TX

- Led safety committee and addressed employees during 30-minute monthly safety meetings
- Trained employees on-the-job and formally
- In addition to 4 years of formal education, actively used Spanish on-the-job

PROJECTS

Computatrum

📅 Feb 2019 – Present

- Active project to develop a 'generalized' intelligent process automation agent
- Ongoing research published at https://jacobfv.github.io/projects/full_stack_artificial_intelligence/

Jnumpy

📅 Oct – Nov 2021

- Another autograd/deep learning/RL library
- Github repository: [JacobFV/jnumpy](#)

DesparadosAEye

📅 Jan – May 2021

CERTIFICATIONS

Google TensorFlow Developer Certification

Google Developers

📅 April 2021

DeepLearning.AI TensorFlow Developer

Coursera

📅 Oct 2020

DeepLearning Specialization by DeepLearning.AI

Coursera

📅 Sept 2020

AWS Certified Developer – Associate

AWS

📅 Mar 2019

AWS Certified SysOps Administrator – Associate

AWS

📅 Mar 2019

AWS Certified Solutions Architect – Associate

AWS

📅 Feb 2019

- Project manager, general app developer, and ML engineer for a 5-person group developing open-ended Android chatbot
 - App available at <https://github.com/kmosoti/DesparadosAEYE>
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Stanford Open Datathon Group Project

📅 April 2021

- Worked as data scientist in a 5-student international group analyzing sentiment and semantics of the COVID19 pandemic
 - Personal contributions published at https://jacobfv.github.io/projects/2021_SODP/
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Home Internet Factory

📅 April 2020

- Internet connected prototyping machine hub
 - Raspberry Pi 4 served as gateway to tabletop CNC router, 3D printer, two cameras, and 3.3V logic I/O auxiliary interfaces
 - Published journey to develop and operate at <https://medium.com/@jacobfv123/industrialautomation-home-bba924a3b2f0>
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Workplace Surveillance System

📅 July 2019

- Employee phone detection computer vision system
 - Client-side neural network programmed with tensorflow.js
 - Demonstration to employer succeeded identifying employees on their phone, but employer not willing to pay to use
 - Github repository: [JacobFV/Workplace-Surveillance-System](#)
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Big Blender Farm

📅 July 2018 – April 2019

- Blender render farm web application; full stack
 - Although never completed, became more familiar with Blender python scripting, general animation workflow, web application development, and the internet
 - Planned extensively how to use Amazon Web Services (AWS) WAF, API-Endpoints, Lambda, static S3 buckets, CloudFront, and DynamoDB to deliver content and application on a completely serverless architecture
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SQT-English-to-Spanish-Translator

📅 Oct – Nov 2016

- Flexible Spanish – English translation system
 - Programmed in C# with Visual Studio
 - Formalized many more aspects of English – Spanish translation
 - Github repository: [JacobFV/SQT-English-to-Spanish-Translator](#)
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Sale Translator

📅 Oct – Nov 2015

- Basic Spanish – English translation system
 - Programmed in C# with Visual Studio
 - Implements formal language parsing and production system
 - Github repository: [JacobFV/Sale](#)
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Cookie Cutter CNC

📅 Mar – May 2015

- 36"×36" sheet metal cutter with server and client control systems
- Full stack engineering project. Designed and developed C# .svg parser, toolpath scheduler, and optimizer, Arduino C controller with serial protocol and electronics, and CNC machine with electrodischarge machining head.
- Development journey published at <https://jacobfv123.medium.com/cookie-cutter-cnc-923c68932ee6>