

# JACOB VALDEZ

## Machine Learning Engineer and Researcher

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## 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 and enhance information system 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

Full Stack Artificial Intelligence

📅 Feb 2019 – Present

- Active project to research and develop human-level artificial intelligence
- Ongoing research published at [https://jacobfv.github.io/projects/full\\_stack\\_artificial\\_intelligence/](https://jacobfv.github.io/projects/full_stack_artificial_intelligence/)

DesparadosAEye

📅 Jan – May 2021

- 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>

Stanford Open Datathon Group Project

📅 April 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

## TEACHING

Artificial Intelligence: Principle and Practice

**Independent**

📅 Oct 2021

Derived from LianTze Lim's `altacv.cls` tex project template. Specifically, I changed the `main.tex` and `page1sidebar.tex` while preserving his preamble and `altacv.cls` files.

- 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/](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>