

JACOB VALDEZ

Software Engineer

@ jacob.valdez@limboid.ai +1 469 968 9490 jacobfv.github.io
@jvboird JacobFV in jacob-f-valdez

EMPLOYMENT

Full-Stack Pipeline Engineer (IC)

Flora Creative Systems

📅 2024 – 2024 🌐 florafauna.ai

- Worked alongside team of 10 other software engineers to build a node-based AI media editor
- Implemented node editor drawing integration and user credit tracking refinement

Developer (IC)

UTA College of Social Work

📅 2024 – 2024 📍 Arlington, TX

- Helping interns complete **MyAmble**: a full stack PWA for social work surveys with real-time LLM-driven analyses

Full-Stack Founding Engineer

Everything Estate Sales

📅 2024 – Present 🌐 everythingestatesales.com

- Building full-stack Next.js PWA web app for Afternoon Estate Sales LLC

Software Engineer

Motio Inc

📅 June 2022 – Jan 2023 🌐 motio.com

- Developed **Soterre for Qlik Sense**
- Intern June – Aug. Full-time SE Aug. '22 – Jan '23

Student Research Assistant

IT Lab, UTA

📅 June 2021 – May 2022 🌐 itlab.uta.edu

- Collaborated with a research group to evolve and test a flask-based statistical visualization tool **CoWiz (renamed as Dash)**
- Developed full-stack web server **MLN-Dashboard** using the Next-React-GraphQL-Strapi stack

Student Research Assistant

UTA College of Social Work

📅 June 2021 – May 2022 📍 Arlington, TX

- Maintained and enhanced multi-platform (iOS and Android) data collecting application **MyAmble** and web admin dashboard
- Stack: JavaScript, Firebase, Flutter (mobile), and Vue (admin dash)

Crew Trainer

McDonald's

📅 May 2016 – Mar 2020 📍 Midlothian, TX

- Led safety committee and addressed employees during 30-minute monthly safety meetings

ACHIEVEMENTS

2022 Future Texas Business Legend Award Finalist

Texas Business Hall of Fame 📅 Spring 2022
for Limboid LLC business proposal

Paper accepted

Baltic DB&IS 2022 📅 Spring 2022
for co-authoring *ModViz: A Modular and Extensible Architecture for Drill-Down and Visualization of Complex Data*

Broaden and Build Conference Honorable Mention

UTA College of Social Work 📅 Sept 2021
for presenting work *Broadening and Building Beyond Classical Reinforcement Learning*

SCRF Honorable Mention + \$100 award

UTA CSE Dept 📅 Spring 2021
for presenting work *Predictive General Intelligence*

CERTIFICATIONS

AWS Certified Machine Learning – Specialty
AWS 📅 Feb 2022

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

AWS Certified Cloud Practitioner
AWS 📅 Nov 2018

- Trained employees on-the-job and formally
- In addition to 4 years of formal education, actively used Spanish on-the-job

EDUCATION

B.S. Computer Science

The University of Texas at Arlington

📅 June 2020 – Aug 2022

📍 Arlington TX

GPA 3.6/4.0

A.A.S. in Mathematics

Navarro College

📅 Sept 2014 – May 2018

📍 Waxahachie TX

GPA 3.9/4.0; Dual-credit program; 85 hours taken

PROJECTS

Limboid

Humanoid robot

📅 Feb 2019 – Present

🔗 limboid.ai

- Hydraulic actuated, endoskeletal humanoid robot
 - Technologies: 3D Printing, CNC routing, plasma cutting, PCB fab
 - Under construction. Artifacts available on request
-

MLN-Dashboard

Modular server for data visualization

📅 Oct 2021 – May 2022

🔗 [JacobFV/mln-dashboard](#)
🔗 [Presentation](#)

- Stack: typescript, react, next.js, GraphQL, Prisma, and later Strapi
-

Jnumpy

Another autograd/deep learning/RL library

📅 Oct – Nov 2021

🔗 [JacobFV/jnumpy](#)

20Q: 20 Questions Android Game

Android app developer in a 4-person group

📅 June – Aug 2021

🔗 [JacobFV/20Questions](#)
🔗 jacobfv.github.io/projects/20Q

- Stack: Android, SQLite, Java, Kotlin
 - Design, development, and testing
-

multigraph-nn

Dynamic time multi-graph neural network framework

📅 May 2021

🔗 [JacobFV/multigraph-nn](#)

- Stack: Python, tensorflow, keras
-

DesparadosAEye

chatGPT before chatGPT

📅 Jan – May 2021

🔗 [kmosoti/DesparadosAEYE](#)

- Stack: Android, SQLite, Java, Kotlin, TFLite, BlenderBot
 - Organized team, general app architecture & development, and MLOps
 - I won't claim it was as good as chatGPT, but it was for the time
-

Stanford Open Datathon Group Project

Performed data science in 5-student international group

📅 Apr 2021

🔗 jacobfv.github.io/projects/2021_SODP

Home Internet Factory

CNC router + 3D printer + Raspberry Pi 4 + camera + Internet

📅 Apr 2020

🔗 jacobfv123.medium.com/industrialautomation-home-bba924a3b2f0

Workplace Surveillance System

Employee phone detection computer vision system

📅 July 2019

🔗 [JacobFV/Workplace-Surveillance-System](#)

- Stack: web 1.0, tensorflow.js, mobilenet
- Demonstration to employer succeeded identifying employees on their phone, but employer didn't end up purchasing a subscription

Big Blender Farm

AWS Generative Blender Design System Concept

📅 July 2018 – Apr 2019

- 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

SQT-English-to-Spanish-Translator

Flexible C# Spanish – English translation system

📅 Oct – Nov 2016

🔗 [JacobFV/SQT-English-to-Spanish-Translator](#)

Sale Translator

Basic C# Spanish – English translation system

📅 Oct – Nov 2015

🔗 [JacobFV/Sale](#)

Cookie Cutter CNC

Full stack engineering project

📅 Mar – May 2015

🔗 jacobfv123.medium.com/cookie-cutter-cnc-923c68932ee6

- 36"×36" sheet metal cutter with server and Arduino client control systems:
🔗 [JacobFV/CookieControl](#) 🔗 [JacobFV/Arduino-CookieControl](#)
- Designed and developed C# .svg parser, toolpath scheduler, and optimizer, Arduino controller with serial protocol and electronics, and CNC machine with electrodischarge machining head.
- Presented on project in May 2015 and June 2016

Copyright Calculator

Scripted conversation bot to help students stay safe

📅 Sept 2014

🔗 [JacobFV/Copyright-Calculator](#)

CookieBaker 3D Printer

Programmable 12×12 2D gantry

📅 Mar – May 2013

🔗 jacobfvaldez.weebly.com/engineering

- Learned mechanical engineering basics
- Intended to make a 3D printer, but extruder never added
- Re-attempted project in October 2014 with design modifications

More work [here](#).