

# ANGEL VELASQUEZ

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## EDUCATION

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**Utah Tech University** — *St. George, UT*

Jan 2022 – May 2024

Bachelor of Science, Software Engineering - GPA: 3.91

## EXPERIENCE

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**Tdooz** — *Remote, UT*

May 2025 – Present

Software Engineer (Contract)

- Engineered and deployed a real-time messaging system across 3 platforms with React, React Native, and Go, self-hosting Centrifugo as a WebSocket server on AWS via Docker with a load balancer.
- Built an end-to-end vendor payout system integrating Stripe and a billing microservice, allowing admins to review and manually adjust automated payouts before sending to vendor Stripe accounts.
- Acted as a full-stack engineer across 3 production apps, shipping features across the full stack and restructuring shared API logic with Zustand state management to reduce duplication.

**Ilico Genetics** — *Bethlehem, PA*

Oct 2024 – May 2025

Software Engineer Intern

- Created a FastAPI machine-learning microservice utilizing Polars data frames to deliver over 200% faster batch predictions compared to old subprocess system.
- Redesigned a React frontend to use modern views such as data-table workflow for patient data, drag-and-drop CSV uploads, batch operations, and dynamic frontend input validation.

**Utah Tech University** — *St. George, UT*

Virtual Reality Software Engineer

May 2023 – Aug 2024

- Developed 14 multiplayer lab experiences using C# and Unity, enhancing the learning experience for Utah Tech students across 2 courses each semester.
- Optimized online systems, including a render texture save and sync system, increasing performance by over 200% with the use of efficient bit-packing optimization techniques.

Code School Instructor

May 2024 – Aug 2024

- Designed and instructed a summer full-stack web development course (Vue, Express, and MongoDB) to 19 students alongside one other instructor.
- Mentored 6 groups with full-stack projects which helped 3 land developer roles.

## PROJECTS

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**The Bias Post** | [bias-post.angelv.dev](https://bias-post.angelv.dev)

- Built a full-stack Next.js application that utilizes a Hugging Face Space API and the OpenAI API to produce bias scores for news articles. In addition the hosted model highlights bias signal phrases and provides LLM summaries that explain the results of the model.
- Implemented a Supabase database to store bias scores, signal phrases, and summaries for a compare-and-contrast interface that allows for side-by-side bias analysis of two different articles on the same subject.
- Fine-tuned a DistilBERT encoder to interact with a chunked-attention classifier using Pytorch and 40,000+ articles to detect bias within paragraphs and find key phrases that are attributed to the predicted label.

**Lyric Luminary** | [luminary.angelv.dev](https://luminary.angelv.dev)

- Built a SvelteKit frontend that utilizes Genius API integration for searching songs by title, artist, or lyric. This then autocompletes either the lyrics or the link of the Genius song as text input to send to the hosted model.
- Prepared a dataset of 3 million song lyrics by transferring the CSV contents into a clean and sorted text, then trained a TF-IDF Naive Bayes classifier across five genres with scikit-learn.

## SKILLS

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**Languages:** Python, Rust, C#, Go, TypeScript, JavaScript, HTML, CSS

**Frameworks and Libraries:** React, Tailwind, Vue, MongoDB, FastAPI, Svelte, PyTorch, Sklearn, Pandas, Docker, PostgreSQL, Next.js