Isael Lazcano

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SKILLS

- Python; JavaScript; C#; HTML; CSS; C++; React; Next.js; Tailwind CSS; TensorFlow Lite; Unity; Node.js; Git; PyMavlink; Drone Code; Responsive Web Design; Form Handling (Resend API); Database Management (MySQL); Real-Time Tracking Algorithms; Computer Vision; Agile Development; SRS Documentation; Raspberry Pi Integration.

WORK EXPERIENCE

Centers of Research Excellence in Science and Technology (CREST)   June 2024 – Dec. 2024

Software Engineer Intern - Drone and AI Development   ❖*In-Person* ❖*San Bernardino, CA*

- **Developed AI-driven drone tracking system** : Implemented a **TensorFlow Lite** model on a **Raspberry Pi 5**, enabling real-time object detection and drone tracking at ~10 FPS.
- **Created an adaptive Python algorithm** : Designed and trained algorithms capable of accurately recognizing drone images in **diverse environments** such as mountainous, urban, and open skies, ensuring robust detection
- **Analyzed and improved detection accuracy** :Enhanced tracking performance for distances **30-60 feet**. Addressed variability in width and height measurements to improve precision. Conducted rigorous testing for system optimization, achieving **90% detection accuracy** within a range of **10-20 meters.**
- **Integrated Tools and Technologies :** Utilized PyMavlink for drone control and navigation, enabling precise flight adjustments based on AI predictions.
    - o **Stack:** Python, Drone Code, TFlite, PyMavlink

G2 Insurance & Auto   Aug. 2024 – Dec. 2024

Web Developer   ❖*Hybrid* ❖*San Bernardino, CA*

- Built a responsive **single-page application (SPA)** for G2 Insurance & Auto using **Next.js** and **Tailwind CSS**
- Designed interactive features like a **carousel** , **insurance coverage cards** , **Google Reviews** , and a **contact form** integrated with **Resend** for email handling.
- Collaborated on layout and design using **Figma** to ensure a user-friendly and professional aesthetic.
- Deployed the website on **Vercel** , optimizing performance and load times
- Maintained custom branding with tailored colors, fonts, and styles.
    - o **Stack:** Next.js, React, HTML, CSS, JavaScript, Git.

R2U Consulting Services   Dec. 2024 – Present

Web Developer   ❖*Hybrid* ❖*San Bernardino, CA*

- Developed a **three-page website** for R2U Consulting Services using **Next.js** , **React** , and **Tailwind CSS** , ensuring a responsive and user-friendly design.
- Integrated a **contact form** with **Resend** for secure and reliable email handling.
- Designed a professional and visually appealing layout tailored to the company's branding and business needs.
- Managed stakeholder communication to align the website's design and features with the company's business objectives.
    - o **Stack:** Next.js, React, HTML, CSS, JavaScript, Git.

Academic Project

California State University, San Bernardino   Aug. 2023 – Dec. 2024

Game Developer - Team Lead   ❖*Hybrid* ❖*San Bernardino, CA*

- Led a team of 7 students to build a top-down 2D game and SRS document outlining scope, user interface, communication interface, memory, runtime, error handling, design constraints, and product functions

- Embraced a learn-as-you-go approach by learning C# and Unity Engine within 8 weeks. This experience reinforced my adaptability and dedication to mastering new technologies.
- Led 3 agile sprints to build out features outlined in the SRS document and received teacher praise for delivering within original scope.
- Delivered a functional prototype praised by faculty for meeting design constraints.
  - **Stack:** C#, Git, Unity

EDUCATION

California State University, San Bernardino

Degree (Bachelor of Science), Major (Computer Science) ❖*San Bernardino, CA*

- **GPA: 3.6/4.0** *Minor (Data Science)*
- *Relevant Coursework: Data structures, Algorithm Analysis, Software Engineering, Database Systems, Artificial Intelligence, Linear Algebra, Discrete math, Game Design, Operating Systems, Formal Languages and Automata, Machine Organization, Parallel Algorithm & Program, Contemporary Computer Architecture, Networking and Security, Intro to Data Science.*

Personal Projects

Personal Portfolio Website (https://port-folio-il-main.vercel.app/)

- Designed and developed a visually appealing and interactive portfolio website to showcase personal projects, professional experience, and technical achievements.
- **Design & Animation** : Bento Grid, Hero Section Grid, Dot Backgrounds, Parallax Grid, Infinite Moving Cards, Magic Button, Moving Border, Floating Navbar, 3D Animated Pin Navbar Menu
- Built responsive layouts using Bento Grid and Dot Background components to enhance user engagement.
- Implemented a parallax scrolling timeline to showcase milestones and projects with a blend of storytelling and design.
- Integrated a photo gallery using Scroll on Photos for an immersive visual experience
- Used modern animations like Infinite Moving Cards and 3D Animated Pin Navbar to deliver a dynamic, cutting-edge user experience.
- Highlighted recent projects, work experience, and testimonials with seamless navigation and optimized performance.
- Demonstrated expertise in UI/UX design, modern web development, and storytelling through creative use of animation and interaction.

Spotify Guess Game

- An interactive web app where users log in with Spotify, contribute their playlists, and compete to guess whose playlist a song belongs to!
  - **Stack:** Next.js, React, TailwindCSS, Node.js, Express.js, Socket.IO, Spotify Web API, JavaScript

Soft Skills

- Problem-Solving; Team Leadership; Communication; Adaptability; Time Management; Attention to Detail; Collaboration; Critical Thinking; Creativity.

Interests

- Web and App Development; Drone Technology; Artificial Intelligence; Machine Learning; Game Development; Photography; Traveling; Visual Storytelling, Photography, Hiking, AI, Video Games.