Ryan Levee

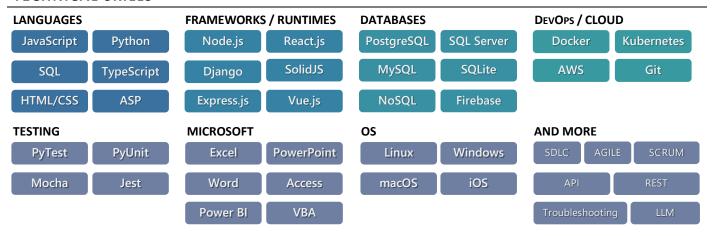
Software Engineer



ABOUT

Results-driven Software Engineer with advanced qualifications and a valuable skill set. Experienced in creating scalable frontend, client-side, intermediary, server-side, and backend solutions using industry-standard and cutting-edge technologies. Known for analytical thinking, efficiency, and accuracy in fast-paced environments. Strong communicator with years of experience working as a team-player, capable of both collaborative and independent work. Dedicated to exceeding business goals and meeting delivery deadlines.

TECHNICAL SKILLS



WORK EXPERIENCE

South Bay Auto Auction

Gardena, CA

Software Engineer

Jan 2023 - Present

- Integral in achieving a 15% decrease in labor costs through building custom REST APIs and automation software.
- Responsible for a 10% increase in net income by developing automated invoicing software in Python, which identified numerous issues that had been present during manual operation.
- Integral in achieving a 25% decrease in server costs with strategic refactoring of legacy codebases in classic ASP.
- Design and maintain REST APIs in Python and Node.js, using multiple frameworks including FastAPI, Flask and Express.js.
- Create and maintain automated systems in Node.js and Python for clients and vendors.
- Develop webhook listeners in Python and Node.js to automate vehicle live scan and alert data.
- Design and maintain multiple frontend platforms and dashboards using React.js and SolidJS.
- Collaborate with cross-functional teams and departments to integrate new features and optimize existing processes.

Remote **Outlier Al** Jan 2023 - Present Al Trainer

- Peer-review code, a job for which I was hand-selected, reflecting a track record of consistent, high-caliber work.
- Employ advanced software engineering principles to enhance the coding capabilities of generative AI models.
- Design effective prompts to guide AI models in generating the desired output.
- Assess AI systems to ensure they meet quality standards.

West Hollywood, CA A3 Artists Agency Oct 2017 - Jan 2021

Film & TV Literary Agent

- Built a custom web-scraper in Python to provide an ongoing influx of information for the company.
- Generated millions of dollars in sales of client scripts, pitches, and IP projects to major film/TV/digital studios.

IAG (Independent Artist Group)

Beverly Hills, CA

Sep 2014 - Oct 2017

Film & TV Literary Agent

Signed, staffed, and sold projects for studio and indie writer, director, and producer clients.

EDUCATION AND HONORS

Loyola Marymount University

Full Stack Software Development Program, 99th Percentile

University of Illinois Chicago School of Law

1L, Dean's List

Arizona State University

B.A., Cum Laude

Los Angeles, CA

2021 - 2022

Chicago, IL

Tempe, AZ

PROJECT SAMPLES

NEXRAD Weather Radar Viewer with Mapbox





Overview: High-performance, interactive, full-stack SolidJS web application designed to visualize NEXRAD (Next-Generation Radar) weather data on a dynamic map interface powered by Mapbox GL.

Frontend Technologies

Framework: SolidJS

Runtime Environment: Node.js

Language: JavaScript

Mapping Library: Mapbox GL

 State Management: SolidJS Signals (createSignal, createEffect, etc.)

REST API Communication: Native Workspace API

Frontend Key Features:

- NEXRAD Visualization with Mapbox: Level 2
 (Reflectivity) and Level 3 (Hydrometeor, Precipitation)
 radar overlays on interactive map.
- Time-Based Animations: Animates radar scans over time with slider, controls, and variable speed.
- Tilt Animations: Animates tilt angles with slider, controls, and elevation angle display.
- Performance Optimization: Aggressive client-side caching, preloading and smart cache cleaning.
- **Real-time Data Awareness:** Backend API connection for automatic interface updates.

Backend Technologies:

Language: Python

REST API Framework: Flask Cloud Storage: AWS S3

Computations: Py-ART, NumPy

Plotting: MatplotlibAWS SDK: Boto3WSGI Server: Waitress

Backend Key Features:

- NEXRAD Data Retrieval: Fetches NEXRAD radar data files from AWS S3.
- Radar Data Processing: Uses Py-ART and Numpy for data interpretation and geographic bounding box metadata calculation.
- Radar Image Creation: Generates transparent PNG plot overlays using Matplotlib.
- REST API for Frontend: Flask API serves processed PNG images and metadata to frontend, and handles CORS for frontend integration.

Medication Reminder System with Voice-Driven Al

GitHub Repository

Overview: Voice-driven AI, Node.js-based medication reminder system with live phone calls, voicemail, and SMS texting fallbacks, utilizing Text-to-Speech (TTS), Speech-to-Text (STT), and a Large Language Model (LLM).

Technologies Used:

- Runtime Environment: Node.js
- REST API Framework: Express.js
- Real-time Communication: Twilio (Voice API, TwiML, Media Streams, Recordings API, SMS API)
- TTS (Text-to-Speech): ElevenLabs (real-time streaming transcription)
- STT (Speech-to-Text): Deepgram (real-time streaming transcription)
- LLM (Large Language Model): Google Gemini
- Database: Cloud-based NoSQL database via Firebase
- WebSockets: ws, express-ws
- Testing: Jest, Supertest
- **Development Tunneling:** Ngrok

Key Features:

- · Outbound Call Trigger: Initiate voice calls to specified phone numbers via a POST /call REST API endpoint.
- Real-time TTS: Uses ElevenLabs to generate voice prompts for medication reminders and voicemail messages.
- Real-time STT: Leverages Deepgram via WebSockets (<Stream>) to transcribe user speech during calls in real-time.
- **LLM Interaction:** Integrates with Google Gemini to provide conversational responses to user queries about specific medications, dosage, frequency, instructions, storage, pharmacies, etc., based on predefined factual data and a system prompt. If the patient attempts to utilize the LLM for anything other than the predefined topic, the model will refuse to deviate, steering the conversation back to their medications.