



Jorel Olan

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University of Texas at Dallas, Computer Science B.S. 2015-2019

U.S. Citizen

Experience

Software Engineer – Li Creative Technologies

December 2019 –

Present

- Developed serverless app for 3D sound AI, featured in IEEE Magazine for 400,000+ members
- Implement in-car 3D music software with real-time karaoke and instrument separation
- Developed key features and deployed *3D Musica - Powered by AI* app to the iOS App Store
- Managed app testing and build deployment to TestFlight. Managed app UI and marketing design
- Implemented server to on-device product payment validation system using public-key cryptography
- Co-invented 3D configurable sound (patented)
- Training, testing, deployment of audio-based machine learning models to mobile + embedded devices

Software Engineer / Intern – Vocalife

April 2019 – December 2019

- Created and deployed product website (*3dmusica.com*) using Angular, TypeScript, and Firebase database. Pushed data to clients using Google Cloud functions
- Spatial audio research, development of real time constrained audio software

Digital Art instructor – Dunedin Fine Arts Academy

2016 – 2018

Projects

Avalgo - Play-to-Earn Coding (NextJS | Web3 | Solidity | React | AWS Lambda, RDS | PostgreSQL)

- Decentralized app (dApp) running on the Avalanche blockchain. Users solve coding questions and earn cryptocurrency rewards.
- Used smart contracts and Chainlink to verify and payout users, Moralis Web3 to manage user wallets
- Created a smart contract for non-fungible tokens (NFT) that function as a game pass to play

Clippywrite - AI-Driven Copyright Prevention (Python | Tensorflow | React | AWS Cloud | Docker)

- Extracts audio sources that may flag copyright claim systems using machine learning
- Created pipeline for processing user-provided audio/video, performing inference on them with Tensorflow, and uploading/managing them with AWS S3 Cloud

Japanese-Pop Album Web App (Golang | PostgreSQL | AWS | Vue.js | JavaScript | Bootstrap)

- A RESTful full-stack personal website project that hosts and indexes info about Japanese albums. Database deployed to AWS. Backend makes use of Mux for http routing

Technical Skills

- **Skills:** Full-stack, iOS, and backend development, client-facing, machine learning, audio projects
- **Languages:** JavaScript, TypeScript, Swift, Python, Java, SQL, Objective-C, Shell scripting
- **Frameworks/Libraries:** Next.js, React, Node.js, AWS (Lambda, Cognito, Amplify, RDS, EC2)
- **Development Tools:** VSCode, Git, AWS, Bash, Xcode, Remix, Pip, Postman, Unix, Vim

Languages

- Fluent English and Spanish, conversational Japanese