



**Jorel Olan**

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<https://jorel.cc>

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

U.S. Citizen

## Experience

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### Software Engineer – Vocalife

*January 2019 – Present*

- Developed key features and deployed **3D Musica - Powered by AI** to the Apple App Store
- Implemented patented and patent-pending based software components
- Managed build deployment and production testing to TestFlight
- Implemented server-side product to on-device payment validation system using public-key cryptography
- Training, testing, and implementation of machine learning models on mobile devices using TensorFlow and CoreML
- Research and development in realtime AI, audio, and mobile platforms
- UI and marketing design for 3D Musica using Xcode, Adobe Photoshop, Illustrator, Premiere

### Software Engineer / Intern – Vocalife

*April 2019 – December 2019*

- Created, deployed product website for 3D Musica ([3dmusica.com](http://3dmusica.com)) using Angular and TypeScript, used Firebase for database. Pushed data to clients using Google Cloud functions
- Aided in development and testing of spatial 3D sound synthesis
- Audio research and development of realtime constrained software

### Digital Art instructor – Dunedin Fine Arts Academy

*2016 – 2018*

## Projects

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### Clipywrite - 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, Postman for testing.

### eCommerce Java Database (Java | Spring JDBC | AWS | JUnit | MySQL)

- Implemented a mock eCommerce system with a team. Tested written modules in JUnit tests. Consisted of billing, address, purchase, and other interfaces, database schema + queries, and Java backend. Deployed database on Amazon RDS.

### Portfolio Site - [jorel.cc](https://jorel.cc) (CSS/HTML | JavaScript | Bootstrap)

## Technical Skills

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- **iOS development, back-end + full-stack development, machine learning, UI + UX design, DSP**
- **Languages:** Swift, Objective-C, Java, Python, SQL, Go, TypeScript, JavaScript
- **Frameworks/Libraries:** iOS (UIKit, CoreML, Accelerate, Core Audio, Core Data), Tensorflow, Angular, Spring (JDBC), Hibernate (JPA, JDBC), PyTorch, Bootstrap
- **Development Tools:** Xcode, Git, Firebase, AWS, Google Cloud, Anaconda, Postman, VScode, IntelliJ, Unix, Vim

## Languages

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- Fluent English, Spanish, 2 yrs. Japanese, 2 yrs. Mandarin Chinese