

# Xianing Charlene Chen

## Full-Stack Engineer

Irvine, California / + (513)-693-5321 / [xcchen.dev@gmail.com](mailto:xcchen.dev@gmail.com)

Portfolio: [xcchen.netlify.app](https://xcchen.netlify.app)

GitHub: [github.com/hreisis](https://github.com/hreisis)

Linkedin: [linkedin.com/in/xianingchen](https://linkedin.com/in/xianingchen)

## SKILL

- **Programming Languages:** JavaScript, HTML5, CSS3, basic Python & C#
- **Tools:** React, Redux, React Native, Expo, Bootstrap, Material UI, SCSS, MongoDB, Mongoose, Node.js, Express, NoSQL, AWS EC2, Firebase, Git, NPM, Three.js, Unreal, Unity

## PROJECTS

- Earth Odyssey - Full-Stack Website** - [earth-odyssey.com](https://earth-odyssey.com) 2022/08 - 2022/11
- Designed a single page application with **React** and **Material UI** to organize personal travel itinerary.
  - Allowed users to explore local attractions, hotels and restaurants by searching a destination or navigating their current location with **Google Map API** and **Rapid API**; displayed information as a detailed list and a map view.
  - Enabled users to manage their travel city list, save the reservation details and track the expenses in their account page; stored user's personal itinerary data in Firebase **Realtime Database**.
  - Created a travel image gallery with **Firestore Storage** to upload boarding pass, travel photos, etc.
  - Tailored a random image generator to display a new Google Earth image every time the page loaded.
- Pirates - Mobile Application** - [github.com/hreisis/pirates](https://github.com/hreisis/pirates) 2022/08 - 2022/10
- Developed a mobile app for musicians to rent rehearsal studios with **React Native** and **Expo**.
  - Allowed users to register, remember the login credentials and access the camera roll for their avatar image.
  - Set up a reservation system to search for a studio's availability on a specific or flexible date, and push local notifications for appointment confirmation using **Expo API SDK**.
  - Provided a directory listing the details of all types of studios where users can post a comment below, save the interested type in their profile and send its share link to friends.
  - Managed application states and users' preferences through **Redux** and simulated with a **RESTful** JSON server.
- Paradiso - MERN stack application** - [paradiso-tea.com](https://paradiso-tea.com) 2022/07 - 2022/10
- Launched a web app for a tea shop to advertise and track users' preferences using **React** and **Bootstrap**.
  - Allowed admin to modify information, including the drink menu, featured item and latest promotions on the landing page; stored products and users data in a **NoSQL** database built with **MongoDB** and **Mongoose**.
  - Enabled customers to leave a rating, review a drink, and create their personal favorite list, which were handled by a **RESTful** backend server using **Node.js** and **Express**; deployed to **AWS EC2** with frontend client integration.
- Mojave - AI-based Design & Game App** - [xianingchen.com/portfolio/mojave](https://xianingchen.com/portfolio/mojave) 2020/08 - 2021/01
- Designed a hypothetical urban plan assisted by **Artificial Intelligence** and built a companion **UE** game app.
  - Established the site plan of the city model using **CycleGAN**, **Image Classifier** and **Blob Detection**.
  - Implemented a 3D modeling tool with **Python** to generate different iterations of buildings by locating two sets of starting points from which the modules can grow or stay away.
  - Visualized the procedure of terraforming in an animated video and deployed an aggregation game app manipulating 6 different architectural modules, using **Unreal Engine** and **UE Blueprint Scripting** system.
- Spectrum - AR Interactive Mobile App** - [xianingchen.com/portfolio/spectrum](https://xianingchen.com/portfolio/spectrum) 2020/08 - 2020/12
- Built an **Augmented Reality** app as an interactive platform for Spectrum plaza in Irvine with **Unity** and **C#**.
  - Offered a welcoming page with animated avatars and map routes showing paths on site with **Mapbox**, which explores the hybrid experience between the virtual world and reality.
  - Created a info-plaza where user can browse store catalog and share posts on social platforms by entering different virtual gates on site with **MRTK Unity**.
  - Enabled visitors to collect digital coupons in promotion area and view the total number of coupons at the status bar which also shows visitors' current location.

## EDUCATION

- Southern California Institute of Architecture (SCI-Arc) - Los Angeles, CA** 2019/08 - 2021/09  
Master of Architecture, Digital Studio, GPA: 3.7/4.0
- University of Cincinnati - Cincinnati, OH** 2013/08 - 2017/04  
Bachelor of Science in Architecture, GPA: 3.5/4.0