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# EDUCATION

# University of California, San Diego

09/2016-06/2020

B.S. in Computer Science, Minor in Visual Arts: Computing and Arts (GPA: 3.88/4)

Courses Taken: Data Structures, Algorithms, Software Engineering, HCI Design, Computer Graphics

# Work Experience

# Intern Full Stack Developer, LMT Technology, Shanghai, China

06/2018-08/2018

- Worked on the migration of the company's product from Flash to HTML and Javascript, and from a custom back end to Spring framework. Reduced code length and boosted execution efficiency.
- Improved the translation of the product's English version, making it more understandable by English speakers. Met with English-speaking customers and promoted the product to them.
- Introduced JSDoc, a documentation format for Javascript, to the team, setting up a uniform code format.

## OTHER PROJECTS

## Bodylogical MR, Unity Developer

10/2018-Present

- Working with Prof. Jurgen Schulze from UCSD CS department. This is an iOS AR app that would visualize and predict people's health data based on their lifestyles.
- Designed a 3D control panel with Blender so that users could navigate in 3D space to set parameters.
- Currently designing data panels with Unity UI components and C#. Devised 3D ribbon charts to display health statistics, thus utilizing AR space to clearly visualize data both across different lifestyles and across time.

## Mechsuit VR, Unity Developer

04/2017-Present

- Working in a 5-person team in VR club to create a game featuring Steam VR and Unity. Players would wear mechanic armors and fight in an arena.
- Implemented the inverse kinematic system for the armor using the positions of the VR headset and hand-held controllers. The suit's arm would match the player's arm movements, enabling efficient control of the armor.
- Programmed a propulsion system with user movements as input, enabling motion control for users, who would have to physically move to traverse through the arena instead of fiddling with the joystick.
- Designed health and weapon systems, and UI for health and ammo display. Wrote health and weapon scripts with Strategy Pattern and interfaces so that they can be easily extended to add more damage types and player resistances.

### Transracer, Full Stack Developer

04/2018-06/2018

- Worked in a 4-person team to create a web application with both front end (Bootstrap) and back end (Node.js). Transracer allows user to learn different languages through translating lyrics.
- Developed all the database logic with sqlite for songs and scores, so that users can upload their favorite songs to the app for practice, and view their past attempts.
- Helped my Cognitive Science major teammate to get familiar with jQuery in front end development. Improved score calculation based on the number of hints the user relies on and the correctness of the answer.

### WayAround, Front End Developer

01/2018-03/2018

- Worked in a 4-person team to create a web application mockup (front end only). The app would not give the fastest route between two points; it allows users to customize their routes so as to enjoy the trip iteslf.
- After paper prototypes, implemented the home page with Bootstrap, jQuery and Handlebars.js, where the users would customize the route. Wrote two versions of the page for A/B testing, analyzing the time each user used in navigating through the page to find out how users would approach a new product and modified to make the page user-friendly.
- Perfected the review page, where the user rates the route based on their customization back on the home page.

### Flashback Music, Android Developer

01/2018-03/2018

- Worked in a 5-person, Agile team to create an Android application, with Firebase integration. This music app records the time and location songs are played so that users could trace their life.
- Separated UI interaction and back end logic with Model-View-Controller pattern resulting in cleaner code.
- Devised separate logic for music stored locally or remotely under a set of interfaces with Strategy and Factory patterns.

### ${ m Skills}$

Languages C#, Java, HTML, CSS, Javascript, C, C++, Python, LATEX

Technology Unity, SteamVR, Windows Desktop, Android, JavaFX, jQuery, Node.js, SQL, OpenGL, React.js, Spring Visual Studio, Android Studio, vim, Blender, git, Linux