

# Isaac Shepard

SOFTWARE ENGINEER · MATHEMATICS - COMPUTER SCIENCE MAJOR · UNIVERSITY OF CALIFORNIA, SAN DIEGO

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## Summary

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- ❖ Software Engineer with experience in designing and building responsive web applications using Javascript and Python frameworks with GIT version control.
- ❖ Familiar with Shell Scripting, TCP/IP.
- ❖ Familiar with using AWS cloud storage and CI/CD pipelines.
- ❖ Solid foundation in computer science topics: Object Oriented Programming, data structures and algorithms.

## Skills

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**Programming** C/C++ · Python · NodeJS

**Full-Stack** HTML / CSS / Javascript · Express · React · MongoDB · Django · PostgreSQL

## Experience

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### Junior Full Stack Developer

April, 2020 - August, 2020

**General Assembly** - | MongoDB · ReactJS · NodeJS · Express

**Built web applications using Javascript and Python with MVC Frameworks**

- Refactored raw queries from SQL into Django ORM.
- Built responsive features allowing better user experience for mobile devices
- Refactored web applications into ReactJS allowing for faster rendering and future feature implementations

### Unity VR Game Developer

January, 2017 - March, 2018

**Triton XR** - | C# · Unity3D · Google Daydream

**Leveraged the Unity3D system, C# scripting, and GoogleVR to build a mobile virtual reality game Lucid Dreaming.**

- Developed game design and levels using the Unity game engine built for the Google DayDream headset and controllers.
- Followed an Agile workflow and GIT version control (Github) for more efficient productivity on individual features.
- Built character and environment animations for better user experience using C# scripting.

**Game Project Page:** [www.phillipaisling.com/blog-post/lucid-dream-training-in-a-virtual-reality-game/](http://www.phillipaisling.com/blog-post/lucid-dream-training-in-a-virtual-reality-game/)

## Technical Projects

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### Albion Online Hub

July, 2020 - Now

**WEB APPLICATION** - | MongoDB · ReactJS · NodeJS · Express |

[ Albion Online Hub is a web application made for the MMORPG game Albion Online. Uses the game's API to get a JSON payload for app features. ]

**Leveraged MERN web stack and github workflow to build a responsive web application following the MVC design pattern**

- Incorporated RESTful routing allowing cleaner data manipulation for the group organize feature.
- Integrated Albion Online's game API in order to synchronize data for the gold-market graph feature.
- Handled user authentication authorization using MongoDB and Express framework to ensure a proper login feature.
- Utilized a CI workflow and unit testing to allow easier integration of a new feature.
- Refactored main project branch into a React application and incorporated TDD with Jest/Enzyme testing.

### Wayfarer

July, 2020 - July, 2020

**WEB APPLICATION** - | Python · Django · PostgreSQL · Bootstrap |

[ Wayfarer is a Python based web application that acts as a hub for world travelers to post interesting landmarks that are worth visiting. ]

**Leveraged Python, Django, and PostgreSQL to build a Travel/Blog web application.**

- Used Django RESTful framework to handle the web applications routes.
- Collaborated with a team following an agile workflow while using Github for version control.
- Made use of Django's OAuth toolkit to handle user authentication and authorization for account login features.
- Incorporated responsive design on landmark posting feature to allow a smooth user experience

## Shots

January, 2016 - March, 2017

**ANDROID APPLICATION** - | Java · Firebase · |

[ Shots is an Android Mobile Application that allows media “stories” to be shared among friends that you where with the night before. ]

**Leveraged Java, Android Studio, Google Firebase to build a mobile application.**

- Developed map tracking feature that tracks other users within a group.
- Collaborated with a team of eight peers to document and build the android application.
- Configured local storage and cloud storage using Firebase (non-relational database).
- Pushed out group messaging features, allowing other users to add and create a chat group and share media files.
- Used TDD to document and push out quality code.

## Education

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**University of California, San Diego** - Mathematics/Computer Science

September, 2016 - March, 2020

**General Assembly** - Software Engineering

June, 2020 - August, 2020