

# Tyler Kirkpatrick

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**OBJECTIVE:** To obtain a software engineer/ developer role and willing to relocate anywhere in the United States.

**EDUCATION:** **Southern Methodist University** Bobby B. Lyle School of Engineering, Dallas, TX  
*Bachelor of Arts in Computer Science* Graduation: May 2017

**RELEVANT COURSES:** Algorithms, Data Structures, Database Design, Graphical User Interfaces, Software Engineering

**TOOLS:** Amazon Web Services, Angular, Django, Express.JS, Firebase, Git, Hapi.JS, Ionic, jQuery, MongoDB, MySQL, Node.JS, Ubuntu, Vagrant

**LANGUAGES:** **Proficient:** C++, Java, JavaScript, Python, Typescript **Acceptable:** C, C#, PHP

## **PROJECTS:**

### **TimeWaster – Personal Project**

- Built a mobile application for iOS and Android that allows users to view posts on Reddit, Voat, Hacker News, Mashable and other social media platforms.
- For the Reddit portion, users can browse by subreddit, sort posts by different attributes, view comments and click a link that takes them to Reddit.
- Used the appropriate APIs to acquire data.
- Utilized Ionic, Android Studio and XCode for development.
- Authenticated and stored user data through Firebase.

### **Fellow Scrubs – Personal Project**

<http://www.fellowscrubs.com>

- Independently developed a MEAN stack web application and an Ionic mobile application to serve as a meeting place for gamers looking for others to play with.
- Used JSON web tokens for user validation.
- The frontend and backend were deployed using an AWS EC2 instance with an Nginx web server and a remote mongo database through mLab.
- Used Ionic to create the mobile application.
- The frameworks used for the web application include Angular 2, Express.JS, Node.JS, and MongoDB.

### **Center for Congregational Song – Senior Capstone Project**

<http://hymndb.herokuapp.com>

- Created a website for the non-profit organization “Center for Congregational Song.”
- Independently implemented the backend using Node.js, Hapi.js, and MySQL.
- The purpose of the website is to serve as a hub for finding user-submitted resources related to congregational song.
- Visitors have the option of browsing independently, registering for an account, searching for specific keywords and taking a quiz that asks about their music-related interests and then recommends certain resources to them.
- Implemented user validation through JSON web tokens.
- Conducted weekly standups, assigned tasks to other team members and used waffle.io, apiary.io and github for task delegation, testing and version control, respectively.
- The frontend was deployed using Heroku and the backend through AWS Elastic Beanstalk.