### 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* Expected Graduation: May 2017

**RELEVANT** Algorithms, Artificial Intelligence, Data Structures, Database Design, Digital Computer Design,

**COURSES:** Graphical User Interfaces, Networks and Distributed Systems, Operating Systems, Software Engineering

**TOOLS:** Amazon Web Services, Angular 2, ASP.Net Core, Django, Excel, Express.JS, Git, Hapi.JS, jQuery, MongoDB, MySQL, Nginx, Node.JS, Ubuntu, Vagrant

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

**PROJECTS:**

**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.

**Fellow Scrubs – Personal Project http://www.fellowscrubs.com**

* Independently designed and deployed a MEAN stack web application to serve as a meeting place for gamers looking for others to play with.
* Achieved CRUD forum posts and comments.
* 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.
* The frameworks used include Angular 2, Express.JS, Node.JS, and MongoDB.

**Ryan’s Art – Personal Project http://www.ryansart.us**

* Created a MEAN stack web application to host my brother’s comics and other art pieces.
* Users can register for an account and leave comments, likes and suggestions, or simply browse unregistered.
* The frontend and backend were deployed using Heroku and the remote mongo database through mLab.

**Grupr Mobile Application – Group Project**

* Co-developed the back-end of a RESTful mobile application called *Grupr*, incorporating languages and tools including MySQL, PHP, Slim, AWS, Apache and Ionic.
* Users sign up with a valid University email and create, join, or view study groups.
* Completed group searching, sorting, creating, editing and deleting.