

# Shane McFadden

## Software Developer

### Portfolio

[shanemcfadden.dev](https://shanemcfadden.dev)

### Technology

JavaScript/ES6  
Typescript  
React  
SCSS/Sass  
Gatsby  
NodeJS  
Express  
Mocha  
MySQL  
React-Redux  
Webpack  
GraphQL  
Git  
MongoDB  
Jest

### Education

#### University of Michigan

Master of Music –  
Collaborative Piano  
**April 2018**

#### University of Kansas

Bachelor of Music – Piano  
With Highest Distinction  
**May 2016**

### Foreign Languages

**Advanced:** German

**Intermediate:** French, Spanish

### Profile

I am a self-motivated learner harnessing my passion for solving complex problems to transition from hobby coding as a full-time musician to building software professionally with an experienced team.

### Projects and Courses

- **Interactive Pathfinder** – A single page application that allows users to draw various terrains on a grid, plot two points, and calculate the easiest path between them. Built with React and documented with JSDoc.
- **Budget API** – A REST API designed to track user income and expenses by category and account. A server built with Express (a NodeJS framework), written in Typescript, and connected to a MySQL database. Unit tests are implemented with Mocha, Chai, and Sinon. Integration tests and documentation are implemented with Postman.
- **mcfaddenpiano.com** – A landing page for my freelance performing and vocal coaching work. The site has a responsive layout and implements reCAPTCHA, SEO, Google Analytics, and CD through Netlify. Built with Gatsby (a React/GraphQL framework for static websites) and SCSS.
- **Independent Courses** – React, JavaScript/ES6, NodeJS, Express, MySQL, Algorithms and Data Structures, Git
- **Math Courses (University of Kansas)** – Vector Calculus, Linear Algebra, Calculus I & II

### Professional Experience

#### DePaul University

Vocal Division Pianist

**September 2018 - June 2021**

#### Roosevelt University

Vocal Coach

**August 2018 - March 2021**

- Coach classical voice students individually (15-20 each week) to refine their musical interpretation, understanding of the lyrics, and pronunciation of foreign languages (usually French, German, or Italian).
- Prepare singers for 14 opera productions by leading music rehearsals, accompanying staging rehearsals on piano, and effectively communicating deadlines and expectations to performers.
- Give graduating students professional-grade performance experience by providing live piano accompaniment for 2-4 degree recitals each semester.