

Scott Morse
Full Stack Developer
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A React / Node full stack engineer with a background as a professional musician. Author and maintainer of a Python package that is part of the public Python library. Experienced as a composer, performer, and educator of music, and educated in full stack development by DigitalCrafts. I've worked with people from all over the world and have friends on every continent (minus Antarctica). Honest, ambitious, and always looking to surround myself with people to learn from.

Skills:

Languages: JavaScript | Python

Front End:

- React
- Redux
- Next.js
- Apollo
- HTML5 / CSS

Back End:

- Node.js
- Express.js
- GraphQL
- SQL
- Prisma

Certification:

DigitalCrafts | Full Stack Immersive Program | Houston, TX

September 2018 - January 2019

An immersive software engineering training course covering full-stack development including, but not limited to: JavaScript, Python, cutting-edge frameworks like React/Redux, and server-side technologies in Node/Express and databases such as PostgreSQL and MongoDB.

Education:

University of North Texas | Bachelor of Music: Jazz Studies

Graduated May 2016

Summa Cum Laude

For anyone curious about the UNT College of Music's significance in the musical community:

https://en.wikipedia.org/wiki/University_of_North_Texas_College_of_Music

It is the birthplace of jazz education, making it a rare conservatory-level program in a state university

Projects:

PyMusician (Public Python3 package)

<https://github.com/ScottMorse/PyMusician>

License: Apache-2.0

Date completed: v1.0.0-beta released to PyPi on October 8th. Current version: 1.0.1. Updates and maintenance will continue.

The goal of this Python package is to be a comprehensive library of utilities useful for developers who are also well versed in common practice music theory. Examples of it's purpose include:

- Converting a musical note into it's scientific frequency measured in Hz, and vice versa
- Performing transformations on musical notes using the concept of "intervals"
- Creating objects representing larger musical structures, such as modes and chords
- Parsing a common chord symbol as seen on a lead sheet, and returning an accurate chord object

I maintain this code as a long-term project to grow it into a package that will eventually compete with the handful of other similar packages available publicly. I use this package in my own personal projects, where I catch errors and come up with new features and other ways to improve it.

React / GraphQL Full Stack E-Commerce Website

<https://github.com/ScottMorse/PickinPorchDev>

<https://pickinporch.herokuapp.com/>

Technologies used: React, Next.js, Apollo Client, GraphQL Yoga, Prisma

This is a prototype e-commerce website that has full frontend and backend. The frontend server uses the Next.js framework for server-side rendering of React. The Apollo Client communicates with a backend GraphQL Yoga server (an Express-based server for GraphQL), which is connected to the

Prisma service, which allows for basic GraphQL CRUD operations on a remote PostgreSQL-based database.

It also features the Stripe API for checkout, and the website is mobile responsive, using the Styled Components library for styling.

See the GitHub README for more overview on the technologies used.

AtmosFear (React / Redux game)

<https://github.com/ScottMorse/AtmosFear>

<https://atmos-fear.herokuapp.com>

Date completed: December 6th 2018

This project was a challenge for myself to create a game in React from the ground up in 3 days, and I succeeded. This was not done with any tutorial. In this game, you are a space shuttle avoiding collision on the way to space. React is used for the front end, and Redux is used to manage the state of the game. It features:

- Music and sound FX composed by myself
- Pixel graphics created also by myself
- Use of Redux for overall game state (level, health, hit boxes, etc.)
- It is compiled with Webpack and Babel for compatibility and optimization

Houston Flood Gauge Web App (Express.js / PostgreSQL website)

<https://github.com/ScottMorse/Houston-Flood-Gauges>

<https://houston-water-levels.herokuapp.com>

Date completed: November 16th, 2018

I developed this project in a team of developers from DigitalCrafts. We received the idea from the website for the Houston Hackathon, where someone had made a post asking for developers to create a website that measures the water gauge for Lake Houston. Our website shows the most recent data from USGS on fresh water bodies in the Houston area, and provides useful links for Houston residents.

Technologies: Express.js, Node.js, PostgreSQL (pg-promise), HTML Canvas, USGS API

Experience:

City of Houston public website: *October 2018-Present*

- Giving the menu for <https://www.houstontx.gov/directory/> an overhaul to use interactive animated hamburger menus instead of the current outdated view.
- Ensuring mobile responsiveness of the webpage

Startherenow: *September 29th, 2018*

- Advisor for women's startups for a local hack-a-thon in Houston, TX
- Error-handler, troubleshooting errors with the teams' developers in frameworks such as React

Resident jazz guitarist for luxury cruise companies Oceania and Regent: *August 2017 - August 2018*

- Sight-reading music for headline shows daily (reading music in performance with little to no practice)
- Working with international teams of musicians with no prior rehearsal or meeting
- Playing highly detailed production shows each week with a cast of singers, actors, and dancers
- Basic international maritime training (STCW), duties in safety drills for guests

Composer/Guitarist: Tertium Quid *August 2017*

- Composed and performed original blues guitar background music for the short film *Tertium Quid*, which has been shown in numerous film festivals nationwide.
- Trailer featuring my soundtrack: www.youtube.com/watch?v=dCo38Y_89M4

Private Music Instructor: *March 2015 - July 2017*

- Gave professional instruction to about 40 students a week from ages between 7 and 80.
- Improved students' guitar technique and knowledge of music theory
- Directed small bands of students
- Led one student to placing 2nd in the state of Texas for the TMEA All-State jazz competition for high school musicians after 2 years of study with me