



# Ryan McGill

## Web Developer + Electrical Engineer

I'm Ryan McGill, an electrical engineer with three years of experience developing software to enhance the analytics tools of Samsung's largest semiconductor fab in America. I just moved to San Francisco, and I am seeking a role where I can contribute with my engineering and creative background.

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## Work Experience

06/2016 - 08/2016

### Full Stack Web Developer

#### YourTime

Startup that offers a way for customers to book auto services to be completed during their workday.

#### Tasks/Achievements

- Converted abstract business requirements into a concrete web application that provided the company with a product that is used to build their client base.
- Integrated with payment platform, Stripe and authorization platform, Auth0. Technologies included React, Redux, Node.js, MongoDB, and Heroku.

06/2013 - 04/2016

### Process Engineer II

#### Samsung Austin Semiconductor

The largest Samsung semiconductor fab in America producing 40,000+ 14nm wafers per month.

#### Tasks/Achievements

- Created the 'Worklist Generator', a client side web application that became an integral component in our standard operating procedures.
- Invited to present at the annual Samsung Idea Fair for developing the 'Tip Table Visualizer', an excel macro that boosted visibility of the factory equipment status by 200% greater than the conventional tool.
- Received a Samsung DRIVE award for key contributions to the 14nm Oxide Bridge Reduction team by developing a Spotfire monitoring dashboard that simplified identification of failing equipment over the 250+ chamber fleet.

05/2011 - 07/2012

### Lead Instructor

#### iD Tech Camps

#### Tasks/Achievements

- Mentored a team of 4 instructors to run weekly classes for subjects spanning C++/Java programming, 3D modeling, photography, web mastering, and video game design.

02/2011 - 05/2013

### Audio Engineer

#### Big Orange Recording Studio

#### Tasks/Achievements

- Mastered audio recordings for the website Daytrotter that published to a national audience of 70,000+ listeners.

## Education

09/2009 - 05/2013

### BS Electrical Engineering

The University of Texas at Austin

## Skills & Competences

React + Redux

node.js

UX / UI

MongoDb

Docker

Circuit Design & PCB Layout

## Achievements

Conference Speaker at 2015 JUCE Summit in London

Samsung DRIVE Award Q4 2015

Presented at the Samsung 2015 Idea Fair

UT ECE 2013 Senior Design Competition 2nd Place

## Projects

### YourTime Website + Application

- Web app developed for a startup called YourTime with React, leveraging Stripe and Auth0 services. [yourtime-dev.herokuapp.com]

### Samsung Worklist Generator

- Web app that extends the capabilities of proprietary Samsung software. [github.com/ryanjamesmcgill/worklist-generator]

### Javascript Musical Instrument

- Interactive Javascript musical keyboard that utilizes the Web Audio and Web Midi APIs. [farfisaofthefuture.com]

### Embedded Linux Audio Sampler

- Software and hardware design of an embedded linux based musical instrument. [github.com/ryanjamesmcgill/Audio-Sampler-Selector]

## Programming Languages

Javascript



Python



C++



## Interests

Internet of Things | Audio Recording |

Vintage Analog Electronics | Guitars | Synthesizers