912 E 49th St   **Ryan James McGill**   (832) 683-9212
Austin, TX 78751   ryanjamesmcgill@gmail.com

Seeking to relocate for a software engineering role in the San Francisco Bay Area.

EXPERIENCE

Full Stack Web Developer   **YourTime**   *(2 month contract)* **June - July 2016**

- Contracted to build and design the company's website and product application. System is built using modern web technologies such as React, Redux, Webpack, and Node. Source available at: https://github.com/ryanjamesmcgill/yourtime

Process Engineer & Tools Developer   **Samsung Austin Semiconductor**   *(3 years)* **2013 - 2016**

- **14nm Oxide Bridge Reduction Team:** Cleans representative for defect reduction team. Received Samsung DRIVE Award.
  - Developed a monitoring dashboard that scored the performance of 250+ processing chambers by z-scoring all foundry data into a single metric which allowed for fast and accurate identification of failing equipment.
- **Cleans Spotfire Administrator:** Certified Spotfire and Oracle SQL administrator for the Cleans department.
  - Provided one-on-one training to fellow engineers on how to operate and develop Spotfire dashboards.
  - Setup the department's first dedicated server to aggregate fab data to support the Spotfire reports.
- **Tools Developer:** Developed web applications and excel macros for fab engineering teams which reached a usage rate of 12,000+ queries per quarter. Obtained and configured the department's first dedicated web server.

Lead Programming Instructor   **iD Tech Camps**   *(2 summer sessions)* **2011 - 2012**

- Lead instructor of a summer tech camp for students of ages 7-17. Mentored a team of 4-6 instructors to run weekly classes for subjects spanning C++/Java programming, 3D modeling, photography, web mastering, and video game design.
- Developed lesson plans, edited camp videos, and organized a weekly graduation ceremony.

Audio Engineer, Technician   **Big Orange Recording Studio**   *(2 years)* **2011 - 2013**

- Engineer at a fully analog music recording studio. Projects varied between recording sessions for clients and technician work to maintain 50+ year old vintage equipment such as tape recorders, mixing consoles, and electric organs.
- Mastered audio recordings for the website Daytrotter that published to a national audience of 70,000+ listeners.

EDUCATION

B.S.E.E. Bachelor of Science in Electrical   **The University of Texas at Austin**   **2009 - 2013**
and Computer Engineering

- **UT ECE 2013 Senior Design Competition:** Awarded 2nd place for a Bicycle Collision Avoidance System.
- **Texas Instruments 2012 Outstanding Student Designer:** Awarded 4th place for design of a high-gain operational amplifier.
- **Kerrville 2010 Singer Songwriter Contest:** Awarded 1st place and an opportunity to play at Kerrville Folk Festival.

DESIGN PROJECTS & CODING EXAMPLES

- **YourTime Web App** (2016) - MongoDb, Express, React, Node based application currently in development for a new startup called YourTime. *React, Redux, Express [https://github.com/ryanjamesmcgill/yourtime]*
- **Worklist Generator** (2015) - ReactJS based web app that provides an alternative query builder for Samsung semiconductor software. *Javascript, HTML, CSS [github.com/ryanjamesmcgill/worklist-generator]*
- **Web Audio Organ** (2015) - Interactive Javascript web app that uses Web Audio/Midi APIs to emulate a 1960's analog organ. *Javascript, HTML, CSS [github.com/ryanjamesmcgill/webaudio-organ]*
- **Embedded Linux Audio Sampler** (2014) - An embedded linux system that plays back audio samples for musical performance, presented at the 2015 JUCE summit in London. *C++ [github.com/ryanjamesmcgill/Audio-Sampler-Selector]*

LANGUAGES & TECHNOLOGIES

- **Languages**: Javascript, Node.js, Python, C++, Visual Basic, SQL, HTML, CSS
- **Technologies:** React, Express, Redux, Docker, Heroku, MongoDb, Oracle SQL Developer, Git, Microsoft Excel

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COMMUNITY & VOLUNTEER

- Samsung Austin Semiconductor High School Mentorship Program (2013-2014)