

Matt Tytel

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Experience

- Little IO – Audio Synthesis and Effects Software** **Founder**
Termite - designed and implemented a C++ polyphonic synthesizer that runs in the terminal Jan 2013 – Present
Little LFO - designed and implemented a C++ synthesizer and utility plug-in for Reason
- Cakewalk – Music Studio Software** **Contractor / Developer**
Worked with project managers to design and implement new features for audio plug-ins Sep 2012 – Sep 2013
Wrote signal processing and UI code in C++ for the CA-2A, RE-2A, and other plug-ins
- Software Inventions – Google Chrome** **Software Developer**
Worked on back end C++ implementations of the Chrome Extensions API Dec 2011 – Aug 2012
Developed code to pair JavaScript API calls to their back end implementations
- Microsoft – Bing** **SDE Intern**
Wrote programs to ingest and deduplicate data for the knowledge base Jun 2011 – Sep 2011

Education

- California Polytechnic State University** San Luis Obispo, CA
Math Major, Computer Science Minor 2007 - 2012
Key Subjects: Algorithms, Complex Analysis, Discrete Math, Combinatorics, Number Theory

Languages and Skills

Preferred Languages

C++ C JavaScript Python Java

Skills

Signal Processing Interactive Art UI Design

Projects

- Goldwater Dance – C++, openFrameworks** vimeo.com/tytel/gold
an interactive physics simulation and art piece that translates Kinect movements into pretty waves
- LAF (Little Audio Framework) – C++** github.com/iyoko/laf
signal processing, voice handling and audio flow for creating modular, polyphonic synthesizers
- Leftover Bits – SuperCollider** tytel.org/music
a generative music album created in a Pythagorean scale using video game synthesizers
- Lissa Juice – JavaScript, Web Audio API** tytel.org/lissa
Lissajous curves that you can tweak and listen to, synthesized and drawn in real time
- Echollage – JavaScript, The Echo Nest API** echollage.com
a dynamic grid of playable album art with wandering recommendations
- Computer Poetry – Python** tytel.org/poetry
poetry generated with Markov chains that sample a large corpus of web scraped poems