

Matthew Tytel

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Experience

- **Little IO** Somerville, MA
Owner *Oct 2012 – Present*
 - Created Little LFO - a semi-modular oscillator bank for Reason
- **Cakewalk** Boston, MA
Contractor *Sept 2012 – Sept 2013*
 - Lead development for the CA-2A, RE-2A and other audio plugins
- **Software Inventions - Google Chrome** San Luis Obispo, CA
Software Developer *Dec 2011 – Aug 2012*
 - Worked with the Chrome Extensions team on various tools and APIs
- **Microsoft - Bing** Bellevue, WA
SDE Intern *June 2011 – Sept 2011*
 - Created data ingestion and conflation algorithms to expand the knowledge base

Education

- **California Polytechnic State University** San Luis Obispo, CA
Math Major; Computer Science Minor; GPA: 3.10 *2007 – 2012*
 - Key MATH Courses: Topology II, Abstract Algebra II, Complex Analysis, Real Analysis II, Linear Algebra III, Game Theory, Discrete Math with Applications II, Combinatorics, Number Theory
 - Key CSC Courses: Advanced Algorithms, Individual Software Development, Compilers, Interpreters, Computational Finance, Operating Systems, Intro to Graphics

Skills

Languages: C/C++, Python, JavaScript, Java, C#, Objective-C, Lua, F#

Audio: VST3, Reason Rack SDK, SuperCollider, Web Audio API, The Echo Nest API, JACK, Pure Data

Web/Server: JSON, XML, Apache, Django, Chrome API, NoSQL, jQuery, HTML, CSS

Programming Environments: vim, Xcode, Git, Unix/Linux, OSX

Projects

- Termite** - a polyphonic synthesizer that runs in the terminal (C++) github.com/iyoko/termite
- Leftover Bits** - generative album with a pythagorean tuning (SuperCollider) tytel.org/music
- Lissa Juice** - interactive audible Lissajous curves (JavaScript, Web Audio API) tytel.org/lissa
- Echollage** - exploring new music in a dynamic grid of album art (JavaScript) echollage.com
- Computer Poetry** - poetry generated with Markov chains (Python) tytel.org/poetry