

./thor_kell

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github.com/tkell

--about:

Music / data / interface hacker seeks full-time position with same for financial gain, worldchanging, and self-actualization.

--experience:

The Echo Nest / Spotify Boston, Junior Engineer: 09/2012 - Present

I maintain & test a fleet of web crawlers, write new crawlers, and write web applications to keep them under control. I write scripts to test & validate our data, and make web applications that show the current state of our data. I also maintain our Remix API (algorithmically remix any song!) and its documentation.

(Python, JavaScript, HTML / CSS, git, SVN, Agile, Unit Testing, MySQL)

Input Devices & Music Interaction Lab / McGill, Researcher: 09/2012 - 09/2014

I made a stand-alone API for automatically making musical interfaces, as well as a demo webapp and a demo iOS app. I based the API on my prior exhaustive investigation of iOS music apps.

(Python, JavaScript, HTML / CSS, git, MySQL)

CHISEL Group, University of Victoria, Research Assistant: 01/2012 - 07/2012

I built task-management software and source code tagging software for reverse engineers and for academic research purposes. I wrote literature reviews on everything from black-hat hackers to airline emergency protocols.

(Java, Python, C++, Unit Testing)

The Echo Nest / Spotify Boston, Junior Engineering Intern: 05/2011 - 08/2011

I wrote scripts to validate our data and correct bad / stale data. I updated and improved various web crawlers as well as the data pipelines for our crawlers.

(Python, SVN, Agile, Unit Testing, MySQL)

SoundCloud, Web Development Intern: 05/2010 - 08/2010

I worked on adding to and improving the core HTTP API, as well as our libraries for various languages. I also provided support and bugfixes for API users.

(Ruby, Python, PHP, MySQL)

--skills:

Languages: Python, JavaScript, HTML / CSS, PHP, Ruby, C++, Java.

Frameworks: Flask, jQuery, Backbone, WordPress, Rails, Processing.

Data: MySQL, Redis, Cassandra.

Meta: git, SVN, Agile, Test-Driven Design, software testing, technical writing.

Metameta: Talking with humans, learning new things, being on time.

--education:

M. A. Music Technology, McGill University: 2012 - 2014.

B. Sc. Music / Computer Science, University of Victoria: 2007 - 2011.

--thesis & publications:

Musical Mapping of Two-Dimensional Touch-Based Control Layouts. Master of Arts thesis, McGill University, Music Technology, 2014. [Link](#).

A High-Level Review of Mappings in Musical iOS Applications, with Marcelo M. Wanderley. Proceedings of the Sound & Music Computing Conference 2014. [Link](#).

Empirical Analysis of Track Selection and Ordering in Electronic Dance Music Using Audio, with George Tzanetakis. Proceedings of the International Society for Music Information Retrieval 2013. [Link](#).

A Quantitative Review of Mappings in Musical iOS Applications, with Marcelo M. Wanderley. Proceedings of the Sound & Music Computing 2013. [Link](#).

--references

Joe Gester: Senior Engineer, The Echo Nest / Spotify Boston. jgester@spotify.com

Marcelo M. Wanderley: Thesis Supervisor, McGill. marcelo.wanderley@mcgill.ca

Brendan Cleary: Post-Doctoral Researcher, University of Victoria. bcleary@uvic.ca

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