James Keary

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EMPLOYMENT

Crowdskout, Washington DC 2014 - Present
Integrations Engineer, *October 2016 - Present*
- Building, maintaining and upgrading the integration codebase connecting the Crowdskout platform to a growing suite of 20 or so 3rd party softwares such as MailChimp, Iterable and Salesforce.
- Uni and bidirectional syncing of big datasets, developing with scalability and speed in mind; dealing with datasets ranging from a few thousand up to 300 million data points via 3rd party APIs and SFTP servers with flat file ingestion.
- Acting as lead integrations engineer in most ways except title; managing an overseas team of 2 developers, and then 1 in-house developer; instructing on how to build integrations, setting up development environments, introducing team members to the codebase, scoping out projects, ticketing and assigning work loads, examining PR and code reviews, and acting as a general resource.
- This work is done in PHP's Laravel framework on Linux OS, using MySQL, MongoDB, Resque queue manager with Redis DB, Jenkins automation server, and Ansible automation platform. Local development is done in Vagrant Virtualbox with the aid of tools such as Postman API Development app, AWS, PhpStorm IDE, Vim text editor, test driven and fault tolerant development principles, Filezilla, Git for code management, zshell, iterm, with Atlassian Agile organizational tools.

Full Stack Engineer, *January 2015 - October 2016*
- Developed features for the Crowdskout platform, including CSV Export, platform Activity Tracking, and various other solo and team efforts, and continued work on the Modern Notion site (see Front-End Intern section below).
- Front end work was done in AngularJS, SCSS and HTML with Grunt task runner, NPM package manager. Back end was in PHP's Laravel framework.

Front-End Engineer Intern, *August 2014 - December 2014*
- Sole Full Stack level engineer of Modern Notion, a pop science and history articles website.
- Work for this project was done in PHP for Wordpress for backend and ReactJS, JQuery, and SCSS in the front end. Work was done a responsive technical approach and a mobile-first design strategy.
- Built, updated and maintained the Crowdskout Wordpress Plugin, a page view and click tracker, in PHP for Wordpress with SVN for code management.

NYU Steinhardt, Research Programmer, Medical Imaging Sonification Project, *2013 - 2014*
- Developed and designed interactive audio software and audio processing algorithms to sonify large 3D datasets of Positron Emission Tomography (PET) brain scan data from the NYU Langone Medical Center.
- Prepared, managed and tested sonifcation methods on audio experts and doctors to understand if our methodologies aided doctors in the diagnosis of Alzheimer's dementia.
- Work for this project was done in Matlab, Csound, SuperCollider, and the DAW Logic Pro with midi.
- Co-authored publications; *Sonification Method To Enhance the Diagnosis of Dementia (2014)* and *The Triple Tone Sonification Method to Enhance the Diagnosis of Alzheimer's Dementia (2016)*. Gave a talk at the International Conference on Auditory Displays (ICAD) 2014 about or research.

EDUCATION

New York University, Steinhardt, *Masters of Music, Music Technology*, 2011 - 2013, GPA 3.43
Oberlin College, *Bachelor of Arts*, 2002 - 2006

EXTRAS

- Other programming languages I have worked in not listed above include Java, C, and Pure Data