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LAURENCE WELCH

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WORK AND PROJECT EXPERIENCE

Lead Research Assistant　　　　　　**Ithaca College**　　　　　　**Fall 2013 - Current**
- Worked on NSF funded project with Dr. Douglas Turnbull and Dr. Thurston Joachims, of Ithaca College and Cornell University respectively.
- Designed and implemented intelligent playlist generation algorithms.
- Worked with Principle Investigators to oversee the implementation of backend service to serve playlists.
- Redesigned music file storage system using software stack implemented on AWS.

Software Engineer　　　　　　**Push Interactive**　　　　　　**Fall 2014 – Current**
- Responsible for determining the operational feasibility of proposed products and projects.
- Assisted in the development of Point of Sale application for CSP Management.

Chief Technical Officer/Founder　　　　　　**Ith**　　　　　　**Spring 2014 – Current**
- Designed a system for clustering videos/pictures and labeling them with appropriate content and tags.
- Wrote an algorithm for delivering and suggesting labeled content based on preferences and explicit feedback from users.

Volunteer Developer　　　　　　**Ithacan**　　　　　　**Fall 2014 – Current**
- Developing android application for Ithacan, Ithaca College's official newspaper.
- Designed and implemented API's to transfer data from news site to mobile devices.

EDUCATION

Ithaca, NY　　　　　　**Ithaca College**　　　　　　**Fall 2013 – May 2015**
- B.A. in Computer Science with Minor in Economics, May 2015. In-major GPA: 3.7.
- Undergraduate Coursework: Machine Learning; Introduction to Data Structures; Computer Organization and Systems; Principles of Computer Science II; HCI: User Interface design and Development; Calculus I; Macro Analysis; Econometrics.

TECHNICAL EXPERIENCE

Projects
- **Megs** (2013-2014). Megs is a local music discovery platform designed for use in the study of how users discover and share music. It is also used as a mechanism to test different playlist generation algorithms and test the effectiveness of different A/B testing methods. [Java]

- **Angled** (2014). Angled originated from, and was created for, users who have become irritated with biased news reporting. The goal of Angled is to provide users with a holistic view of semantic and thematically related news articles based on the information they are already consuming. [Java, C++, JavaScript]

- **Feedr** (2014). Using a growing cuprous of pictures and gifs, Feedr attempts to cluster and serve the user content in a way that emphasizes passive but cognizant consumption of information. This is achieved through a rating system in which the user gives feedback how well the system predicts preferences. [C++, Java]

- **UV Clipboard** (2014). Ultraviolet Clipboard is meant to be a synchronized clipboard across all devices. It provides a user with a centralized history of all the things that they have clicked. [C, Objective-C]

ADDITIONAL EXPERIENCE AND AWARDS

- **Dana Internship Scholar:** Received grant from Ithaca College to fund summer Research Assistantship.
- **Silver Star First Year Academic Achievement:** Awarded to me for my GPA during first year at Ithaca College.
- **Best User Experience Award:** Awarded to my team at Big Red Hacks for our design of Angled.

Languages and Technologies

- C++; C; Java; C#; CUDA; SQL; JavaScript;
- Visual Studio; Matlab; Eclipse; XCode; Intellij; Torch; Node.js