

Laurence Welch

<http://laurencewelch.com>
lwelch1@ithaca.edu | 347.819.6894

EDUCATION

ITHACA COLLEGE

B.A IN COMPUTER SCIENCE
 Expected May 2015 | Ithaca, NY

BARD HIGH SCHOOL EARLY COLLEGE

Grad. May 2013 | New York, NY

LINKS

Github:// [Lwelch45](#)
 LinkedIn:// [lwelch45](#)
 Personal:// [LaurenceWelch](#)
 Twitter:// [@LaurenceW](#)

COURSEWORK

UNDERGRADUATE

Machine Learning
 Information Retrieval
(Teaching Asst)
 Econometrics
 User Interface Design and Development
 Algorithms
 Unix Tools and Scripting
 Programming Languages
 Computer Organization and Systems
 Macro Analysis
 Money and Banking

SKILLS

PROGRAMMING

Over 5000 lines:
 Java • C++ • Python
 OCaml • Python • \LaTeX
 Over 1000 lines:
 Swift • C++ • MySQL • PHP
 Familiar:
 Dart • iOS • Ruby

TECHNOLOGY

EchoNest • Last.fm • Visual Studio
 Matlab • IntelliJ • Eclipse • Torch
 Node.js • Play Framework • Flask

EXPERIENCE

PUSH INTERACTIVE | SOFTWARE ENGINEER

Sept 2014 – Dec 2014 | Ithaca, NY

- Implemented listing search feature in Android application.
- Used D3 and Plotly.js to create of IBeacon management application for CSP Management.

CHANNEL G | CHIEF TECHNICAL ADVISOR

April 2015 – Present | Mountain View, CA (Remote)

- Designing system to streamline approval for proposed media items and content sharing.
- Creating platform to showcase student films and connect student filmmakers with non profit organizations.

RESEARCH

JIMI-LAB | HEAD UNDERGRADUATE RESEARCHER

Jan 2014 – Present | Ithaca, NY

Working with **Prof Douglas Turnbull** and **Prof Thorsten Joachims** to create **Megs**, a service for local music discovery and a platform for ranked sequence generation and testing. Publication in progress.

YELP DATASET CHALLENGE | SENIOR THESIS

Jan 2015 – Present | Ithaca, NY

Under the advisement of **Prof Douglas Turnbull**, this project seeks to test users affinity to my proposed new method of ranking reviews by optimizing for both usefulness and marginal relevance. [Apache Spark, Scala, Apache Mesos]

PROJECTS

MEGS

Local Music Discovery

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, Python, Angular]

ANGLED

Unbiased News Curation

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

Guided Media Exploration

Using a growing corpus 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]

AWARDS

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|------|----------------------------|---|
| 2014 | Dana Internship Scholar | Awarded Summer Research Assistantship Funding |
| 2014 | Best User Experience Award | Big Red Hacks award for Angled UI Design |
| 2015 | 1 st /12 | Ithaca College business idea competition |