

# Sean Yeh

Software Developer, Free Software Enthusiast, and Musician

[seanyeh.com](http://seanyeh.com)  
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## Skills

### Languages/Tools

- Python, Java, Javascript, Typescript, HTML/CSS/SASS, Shell
- Flask, Node.js, mithril.js, webpack, git, Linux
- Working knowledge of several other languages (Ruby, OCaml, Lua, Clojure) and libraries/tools (Pandas, Numpy, Express, AngularJS, Ionic, MongoDB)

## Work Experience

### Computer Science Instructor

Summer 2017, 2018

Northwestern University, Center for Talent Development

- Taught Java Programming Honors to gifted middle/high school students

### Software Developer / Intern

Jun 2013 - Jun 2014

Sailthru

- Built web platform to display/interact with real-time data (*Node, d3.js, Socket.IO*)
- Developed tools for data wrangling and analysis (*Python, pandas, scikit-learn*)

### HackNY Fellow / Mentor

Summer 2013, 2014

Summer internship program for college students interested in the NY tech scene

- Mentored ~30 fellows, visited startups, and organized outings and hackathons

## Side Projects

### ClefHeroes

[github.com/seanyeh/ClefHeroes](https://github.com/seanyeh/ClefHeroes)

- Educational music game for Android, available on Google Play (*Java, libGDX*)

### NUEvents

[nuevents.seanyeh.com](http://nuevents.seanyeh.com)

- REST API to search Northwestern University's events (*Python, Flask, TinyDB*)

### Shelley-Lang

[shelley.seanyeh.com](http://shelley.seanyeh.com)

- Python-like language, compiles to a minimal subset of Unix Shell (*OCaml, Shell*)

### Vibreoffice

[github.com/seanyeh/vibreoffice](https://github.com/seanyeh/vibreoffice)

- Vi-mode plugin for LibreOffice/OpenOffice. 250+ ☆'s on GitHub.

### Composer Predictor

[github.com/seanyeh/composer-predictor](https://github.com/seanyeh/composer-predictor)

- Machine learning to predict the composer of a musical piece (*Python, scikit-learn*)

Author of several plugins for *vim, firefox, chrome, and other apps.*

Have contributed to open source software such as **Musescore** and **pandas**.

## Awards and Talks

### ITA Tech Challenge National Finalist

Top 50 finalist (out of 600) in the 2017 ITA Tech Challenge Programming Competition.

### WildHacks Hackathon (Best Venmo Hack)

Developed [FriendFS](#), a FUSE filesystem that allows you to send emails and money to friends by using the standard Unix I/O tools (with Mailjet and Venmo APIs).

### Tech talk at Juilliard

Gave a seminar at Juilliard, "Introduction to Computer Programming in Javascript" ([Slides](#))

## Education

### Northwestern University

2014 - 2018

Doctorate of Musical Arts

- Developed app to facilitate audience participation in concerts for thesis, "Exploring new mediums of musical performance through technology"
- **Machine Learning, Network Security, Engineering Entrepreneurship**

### Columbia University

2010 - 2014

Exchange program with Juilliard, coursework equivalent to CS major

- **Artificial Intelligence, Compilers, CS Theory, Computer Systems**

### The Juilliard School

2009 - 2014

Bachelor and Master of Music in Piano Performance