# Tim Siwula

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## EDUCATION

**University of San Francisco**                                              **San Francisco, California**
**B. S. Computer Science**                                                        **Jan 2014 — June 2017**

- Relevant Coursework: Data Mining, Software Development, Data Structures & Algorithms, Parallel Programming, Programming Languages, Compilers, Operating Systems, Linear Algebra & Probability, Discrete Math, Calculus

## RELEVANT EXPERIENCE

**Democratize Computing Lab**                                              **San Francisco, California**
**Research Assistant**                                                             **Jan 2017 — Current**

- Contributing to an open source javascript-to-java translator & code generator project called App Inventor which uses a visual block language developed by MIT

**SF Dev Shop**                                                                       **San Francisco, California**
**Junior iOS Developer**                                                         **Jan 2016 — May 2016**

- Incrementally updated storyboards using Xcode, tested user interactions and animations across multiple iOS emulators
- Implemented a pull-to-refresh animation using Objective-C on the client that would call a server side api

**Independent Contractor**                                                    **Phoenix, Arizona**
**Software Implementation Intern**                                          **May 2015 — Jul 2015**

- Lead project management and training of manufacturing software installation and configuration
- Trained staff on software workflow features while interfacing between branch and parent company IT department

**Berkeley Labs**                                                                    **Berkeley, California**
**Science Web Programmer Intern**                                         **May 2014 — Oct 2014**

- Ported a linux OS and network file system to a new architecture
- Developed a front-end web application using javascript on google cloud

**University of San Francisco**                                              **San Francisco, California**
**Web Services Developer**                                                      **Jan 2014 — April 2014**

- Supported clients and backend engineers to resolve web service requests
- Migrated existing backend software to Wordpress

## PROJECTS

**Ad Click Prediction, Data Mining**                                                          **October 2016**

Used random forests, bagging and SVM to create a model that predicts the likelihood of a user click through Created custom features by integrating several disjoint tables in increments of 500K using R and PostgreSQL.

**Audio Search Engine, Software Development**                                          **December 2016**

A Java Search Engine featuring a multithreaded InvertedIndex, partial search, exact search and a web crawler. Developed with a Jetty server and deployed on Heroku.

## TECHNICAL SKILLS

- **Programming Languages:** Java, C, R, Javascript, Python, Postgres
- **Platforms:** Unix/Linux, OS X, iOS, AWS, Heroku, Google Cloud
- **Protocols:** SSH, TCP/IP, DNS, HTTP, Git
- **Frameworks:** Express, React, Node
- **Languages:** Mandarin (elementary)