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

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

- Developing a open source javascript to java code generator around App Inventor using 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)