

Timothy Siwula

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38235 N Chicago Ave, Wadsworth, IL 60083

EDUCATION

- **University of San Francisco** San Francisco, CA
Bachelor of Science in Computer Science *Jan. 2014 – May. 2017*

EXPERIENCE

- **Siwula Software, LLC** Remote
Freelance Software Engineer *Jan 2019 - Present*
 - **Computer Vision:** Designed a data pipeline that allows for realtime model updates.
- **ConsenSys** Remote & San Francisco, CA
Software Engineer *Jul 2017 - Dec 2018*
 - **Open-source:** Experience in open source development as an individual contributor on Blockchain R&D, Solidity, Web3, Smart Contracts, functional programming.
 - **Tested:** Worked with the Ethereum Foundation to benchmark new opcodes & pre-compiles for the Metropolis hard fork.
 - **Shipped:** Worked on the Protocol & Systems Engineering team helping implement Pantheon, an Ethereum enterprise Java client.
- **HappyChain** San Francisco, CA
Co-founder *Dec 2016 - Jun 2017*
 - **Deployed:** Ethereum blockchain network on AWS, PostgreSQL database, API, solidity smart contracts, web3.
 - **Configured:** continuous integration with our GitHub repo to increase deployment speedup.
 - **Published:** NPM module that called HappyChain that exposes our API to other developers.
- **Lawrence Berkeley National Laboratory** Berkeley, CA
Science Web Programmer *May 2014 - Oct 2014*
 - **System Migration:** Ported the Energy Sciences network testbed to a new architecture. This consisted of a linux OS and a network file system.
 - **Reservation System:** Developed a front-end web application using javascript on google cloud.
- **University of San Francisco** San Francisco, CA
Research Assistant and Web Assistant *Spring 2014 and Spring 2017*
 - **Research Assistant - Compilers:** Contributed to an open source MIT project called App Inventor. Worked on a javascript to java translator and code generator.
 - **Web Assistant - Web Services:** Helped update and migrate existing content management system. Provided support to academic staff and engineers to resolve web services requests.

PROJECTS

- **HappyENS:** Open source domain name server (DNS) library for resolving *.eth domains that are associated to an address on the decentralized web.
- **Ad Click Prediction:** Used random forests, bagging and SVM to create a model that predicts the likelihood of a user clicking through. Created custom features by integrating several disjoint tables in increments of 500K using R and Postgres.
- **The Comedy Bot:** Published: Messenger chatbot that was live in production on Facebook & Deployed: Heroku node server that calls AWS lambda for requests & Twilio sms chatbot.

TECHNICAL SKILLS

- **Languages:** Java, C, R, Solidity, Bash, HTML, CSS, Mandarin (elementary), Python (beginner), Go (beginner), Rust (beginner), Haskell (beginner), Swift (beginner), Scala (beginner)
- **Technologies:** Linux, macOS, AWS, Git, Docker, Heroku, PostgreSQL, Terraform, GCE, Azure, Kubernetes, Machine Learning(basic regressing & classification)
- **Frameworks:** Node.js, Rect.js, React Native, TensorFlow (learning)