Timothy Siwula

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EDUCATION

• University of San Francisco

Bachelor of Science in Computer Science

San Francisco, CA 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

- o 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

- o 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)