

# Timothy Siwula

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## TECHNICAL SKILLS

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- **Languages:** Python, Go, C, R, Bash, SQL, Java
- **Technologies:** Unix/Linux, AWS/Azure/GCP, Docker, Hadoop, PostgreSQL, Git, Terraform, Kubernetes
- **Frameworks:** Node.js, React.js, TensorFlow

## EXPERIENCE

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- **Enlighten** Chicago, IL (Remote)  
*Software Engineer* Jun 2019 - Oct 2019
  - **Dockerized test framework on Bamboo:** Worked between teams to port legacy test framework from protractor to cypress within docker.
  - **Data pipeline:** Updated Redshift and Hadoop tables in ETL pipeline to support new column for enhanced reporting capability.
- **ConsensSys** San Francisco, CA (Remote)  
*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.
  - **Infra:** Experience provisioning Azure linux servers for teammates, along with ssh remote access.
  - **Continuous Integration:** Configured our teams GitHub repo with Travis CI to ensure the exclusion of failing code while automating passing builds.
  - **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* Spring 2014 and Spring 2017
  - **Compilers:** Contributed to an open source MIT project called App Inventor. Worked on a javascript to java translator and code generator.

## PROJECTS

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- **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.

## EDUCATION

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