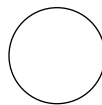# Ivan Zhang
Full Stack Developer

github.com/1vn
ivan@ivanzhang.ca
@1vnzh

Experience

Lead Software Developer
Ranomics (Nov *2015 — Present*)

- Wrote and designed the entirety of the software stack for customers around the world to access our genomics datasets to give faster and better cancer diagnostics.
  - High-profile users: BGI (3rd of Top Institutions in Nature and Science), Veritas (U.S.)
- Enabled revenue-sharing partnerships by building an OAuth2 RESTful API
  - Integration on the 3rd-party platforms gained exposure to 400+ European hospitals
- Architected infrastructure, and designed repeatable and reliable deployment processes on AWS
- Built proprietary scientific codebase to optimize our in-house lab processes

Open Source & Side Projects

Occam's Razor (co-author)
- Research group doing work in GANs and pre-training
  - Implemented neural networks in Tensorflow
  - Optmized training pipeline for researcher UX
  - Ran experiments and tuned hyperparameters accordingly

imgrep (co-author)
github.com/keeferrourke/imgrep
- CLI utility for searching text snippets within images
  - Given a directory to scan and a keyword, outputs absolute paths to images containing keyword.
  - Written in Go and uses TesseractOCR in the backend.

wifi_doorbell
github.com/1vn/wifi_doorbell
- Wrote a Rust program to play a sound when someone connected to my local network.
  - Scans ARP packets, diffs the lists between scans, plays a sound using ears crate.

ColourNTP (contributor)
github.com/arkon/ColourNTP
- Chrome new tab extension: shipped the following features:
  - Automatically adjust the text colour to be readable to the dynamic background
  - Implemented workaround for the unpublished "frequently visited links" blacklist Google Chrome API

Languages

Go
React.js
Python/Tensorflow
SQL
HTML/JS/CSS

Education

University of Toronto St. George
Bsc. Computer Science
2014—2016
Attended