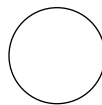


# Ivan Zhang

## Full Stack Developer

[github.com/1vn](https://github.com/1vn)  
[ivan@ivanzhang.ca](mailto:ivan@ivanzhang.ca)  
[@1vnzh](https://twitter.com/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

### Languages

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

### Open Source & Side Projects

#### Occam's Razor (co-author)

- Research group doing work in GANs and pre-training
  - Implemented neural networks in Tensorflow
  - Optimized training pipeline for researcher UX
  - Ran experiments and tuned hyperparameters accordingly

#### imgrep (co-author)

[github.com/keeferrourke/imgrep](https://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](https://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](https://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  - Implemented workaround for the unpublished "frequently visited links" blacklist Google Chrome API

### Education

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