Ivan Zhang
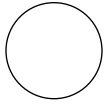## Go && Deep Learning

github.com/1vn
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Engineering

Backend Developer
Vision Critical / Pressly (Nov *2017 — Dec 2018*)
- Wrote endpoints and functionality around business usecases in Go
- Designed and implemented API client for integrating the Pressly backend with legacy Vision Critical services (data deletion, authentication)
- Built tools and automation to improve developer experience such as CI bots, refactoring existing tools to improve usability, and introducing hybrid versioning to database migrations to resolve version conflicts in a large engineering team

Software Developer
Ranomics (Nov *2015 — Oct 2017*)
- 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
- Architected infrastructure, and designed repeatable and simple deployment processes on AWS
- Built proprietary scientific codebase to optimize our in-house lab processes

Research

FOR.ai
- Co-founded an independent, for-fun deep learning research group
- Lead engineering efforts for research workflow optimization
- Built and designed cloud infrastructure on GCP for running experiments on TPU and GPU, with an emphasis on cost reduction and researcher experience
- Designed and wrote internal codebase to minimize manual configuration by enforcing environmental assumptions and integrated TPU workflow.

Publications
- **CipherGAN: Unsupervised Cipher Cracking Using Neural Networks (ICLR 2018, NIPS 2017 DISCML)** - Aidan Gomez, Sicong Huang, Ivan Zhang, Bryan Li, Mohammed Osama, Łukasz Kaiser
- **Targeted Dropout (NIPS 2018 CDNNRIA Workshop)**, Aidan Gomez, Ivan Zhang, Kevin Swersky, Yarin Gal, Geoffrey Hinton

Tools
Go
Python/Tensorflow
PostgreSQL
Amazon Web Services
Google Cloud Platform

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