

# KENDRICK TAN

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## EDUCATION

**Bachelors of IT**  
Jan 2016 - July 2019

*Queensland University of Technology*  
GPA: 5.65 / 7.0

## SKILLS

Languages

Python, Haskell, JavaScript (ES6), Solidity, C/C++, SQL / NoSQL

Frameworks

PyTorch, Numpy, Flask, Django, React, Redux, Cordova, Electron, Truffle.js

Tools

Git, Jenkins, Travis-CI, AWS, Vim, Linux

## EXPERIENCE

**Popgun-Labs**  
Brisbane, QLD  
Nov 2016 - Now

### **Software Engineer / Machine Learning Engineer**

- > Wrote multithreaded data processing tools to process the spectrogram of terabytes of music files using Python and Librosa.
- > Used PyTorch to create, test, and evaluate the performance of various machine learning models such as CNNs, RNNs, VAEs, and GANs.
- > Went through TechStars Music 2017 Accelerator Program in L.A.

**ZenSystem.io**  
Remote  
Aug 2017 - Now

### **Software Engineer / Blockchain Developer**

- > Author of zencashjs - an open source JavaScript library for creating and signing ZENCash transactions.
- > Author of myzenwallet.io, a web wallet for ZENCash using React.
- > Built ZENChat, a messaging application that utilizes zero knowledge proofs for secure, private and anonymous messaging. Built with React, Redux, and Electron.

**iRecruit**  
Brisbane, QLD  
May 2016 - Nov 2016

### **Backend Developer**

- > Worked in a team of three using the Agile methodology.
- > Implemented CRUD endpoints with nested data using djangoestframework.
- > Used profiling tools like Django-silk to reduce the number of queries made to the database.

## PROJECTS

Nov 2017

### **EthPixels (ethpixels.kndrck.co)**

- > Wrote a merchant system in solidity.
- > Deployed the smart contract to the Rinkeby testnet on Ethereum.
- > Wrote a web interface that utilized web3.js to allow users to interact with the contract on a web browser.

Oct 2017

### **Blockchain implementation in Haskell**

- > Wrote a minimal blockchain in Haskell from scratch.
- > Used the Spock framework to construct a REST API interface for the blockchain, utilizing a state monads to avoid global variables and a database.

Jul 2017

### **Facial Feature Indexer for Instagram**

- > Reverse engineered FaceNet to be compatible with PyTorch.
- > Reversed engineered Instagram's request API and wrote a multithreaded scrapper.
- > Used Spotify's annoy to filter queries from the database in real-time.

## TALKS

**Learn You A Pytorch**  
Aug 2017

### **PyCon AU 2017**

On the benefits of using the machine learning framework PyTorch as opposed to tensorflow, theano, caffe, etc.

**Franklin, The Machine Learning RC Car**  
Oct 2016

### **CompCon UQ 2016**

Talked about my experience and knowledge gained as a first year uni student building a self-driving RC car powered by machine learning, with no knowledge about machine learning prior the project.