

# DENNIS YE

Software Developer  
Data Engineer

## CONTACT

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## LANGUAGES

Python	Expert
Javascript	Expert
HTML/CSS	Expert
Ruby	Proficient
C/C++	Proficient
Java	Competent
MATLAB	Proficient
R	Competent

## FRAMEWORKS

Ruby on Rails, Django, Express, React, React Native, Redux, MobX, Vue.js, Electron, Flask

## LIBRARIES

jQuery, Bootstrap, SQLAlchemy, pycpg2, pandas, numpy, nltk, matplotlib, scipy, spacy

## DATABASES

PostgreSQL  
MongoDB  
MySQL

## TOOLS

AWS, GCP, Firebase, Node.js, Git, Vim, Unix, Webpack

## PASSIONS

Music  
Dance  
Travel

# WORK EXPERIENCE

Jan 2018  
|  
Apr 2018

## Evichat Inc.

Full Stack Web Developer  
Toronto, Canada  
Ruby on Rails, Node.js, Electron, PostgreSQL, AWS

- Actively implemented core features for an e-discovery tool that helps lawyers collect, consolidate, and present social media and messaging evidence
- Assisted with the implementation and testing of **NLP** powered **context-aware** search feature, resulting in our first place finish at the 2018 AI Legal Challenge
- Greatly improved data integrity and security, as well as enabled new features through major restructuring of the database schema using **Rails** migrations
- Engineered a scalable solution for retrieving SMS/MMS data from iPhone backups, including support for older generation iPhones and backups as large as **40GB**
- Built an admin panel with custom features, significantly improving development efficiency as well as client onboarding

Sep 2016  
|  
Dec 2017

## LUQL.IO

Co-Founder and Full Stack Developer  
Waterloo, Canada  
Django, React Native, PostgreSQL, GCP, Firebase, MobX

- Extensively engineered a market-ready product from scratch as a founding member of a startup that supports a platform for P2P tourism
- Designed and built database schema for the entire domain of the application
- Developed REST API and core endpoints using **Django** while following a **TDD** approach to reduce potential bugs and improve development efficiency
- Spearheaded development of the mobile application using **React Native** and **MobX**
- Migrated production data and refactored codebase to improve **performance** and better support **asynchronous** execution

Jan 2017  
|  
Aug 2017

## Equitable Life of Canada

Investment Analyst and Developer  
Waterloo, Canada  
Python, PostgreSQL, Flask, SQLAlchemy, pandas, matplotlib

- Developed analytical tools and systems as a core member of the Investment Quants team at a Canadian insurance company
- Created and streamlined data pipelines for essential day to day operations
- Built a tool using **VBA** that provides analytics on our security lending program, resulting in a decision to reallocate certain assets, significantly increasing profits
- Designed and implemented a curve fitting model using **SQLAlchemy** and **Scipy** for constructing yield curves, a crucial component for pricing fixed income securities
- Prototyped an interactive web interface for editing yield curves using **Flask**

May 2016  
|  
Aug 2016

## Imagine Communications Corp.

Software QA Analyst  
Toronto, Canada

- Rigorously tested a line of products that supports nearly half of the world's audio and video channels and empowers the media and broadcasting industry
- Automated functional and performance testing of API through **SoapUI**
- Wrote scripts and unit tests using **Groovy** to streamline the testing process

# EDUCATION

Sep 2013  
|  
Current

## University of Waterloo

Bachelor of Computing and Financial Management