

DENNIS YE

Software Engineer

CONTACT

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LANGUAGES

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

FRAMEWORKS

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

LIBRARIES

jQuery, Bootstrap, SQLAlchemy, pycopg2, pandas, numpy, nltk, matplotlib, scipy, spacy

DATABASES

PostgreSQL
MongoDB
MySQL

TOOLS

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

EDUCATION

University of Waterloo

Bachelor of Computing and Financial Management

Sept 2013 - Dec 2018

EXPERIENCE

Evichat Inc.

Jan 2018 - Apr 2018

Full Stack Web Developer

Toronto, Canada

Ruby on Rails, Node.js, Electron, PostgreSQL, AWS

- Collected, prepared, and tested datasets of **100,000+** data points for implementation of **NLP** powered context-aware search feature using **Python** and **Flask**, resulting in **1st place** finish and **\$40,000** prize at 2018 AI Legal Challenge.
- Engineered scalable solution for extracting SMS/MMS data from iPhone backups using **Ruby on Rails** and **JavaScript**, including support for older iPhones and backups as large as **40 GB**.
- Enabled more than 5 major features and greatly improved data integrity utilizing **SQL** and **Ruby on Rails** migrations to restructure large parts of **PostgreSQL** database schema.
- Reduced site load time by **~95%** with database indexing, request pagination, and lazy loading using **PostgreSQL**, **Ruby on Rails**, **Kaminari** and **JavaScript**.
- Decreased time spent on client onboarding by **90%** utilizing **Ruby on Rails** and **Pony** to automate process of account creation, demo setup, and client invitation.

LUQL

Sept 2016 - Dec 2017

Co-Founder + Full Stack Software Engineer

Waterloo, Canada

Django, React Native, PostgreSQL, GCP, Firebase, MobX

- Designed and developed market-ready travel app enabling users to connect with local tour guides at their desired destinations using **Python**, **Django**, **React Native**, and **PostgreSQL**.
- Minimized potential bugs by over **20%** using **Django** with **TDD** approach to develop **RESTful API**.
- Handled **19** types of exceptions and validated data in API calls and forms using **Python** to build core exception handling and data validation libraries.
- Lead iOS development using **React Native** and **MobX**, leading to **100+** users in beta.

Equitable Life of Canada

Jan 2017 - Aug 2017

Data Engineer + Investment Analyst

Waterloo, Canada

Python, PostgreSQL, Flask, SQLAlchemy, pandas, matplotlib

- Increased accuracy and consistency of pricing models for company's core products by **10%** using **SQLAlchemy** and **SciPy** to overhaul and improve yield curve model and processes.
- Helped launch company's most successful bond fund, consisting of **150+** securities, utilizing **Python** and **PostgreSQL** to design, develop, and test data pipelines and core processes.
- Increased profits from security lending program by more than **\$1 million** using **Python** and **SQL** to build data analytics tool that prompted for reallocation of assets.
- Incorporated new pricing source of **7,000+** securities with **Python**, **PostgreSQL**, and **SFTP** to build data pipeline and system that extracts, stores, and selects the most reliable data.
- Reduced scheduling and dependency errors by **20%** by implementing dependencies update feature for job scheduler.

PROJECTS

Plannersist | Django, PostgreSQL, React, Redux, Semantic UI

Productivity tool for managing personal projects, tasks, and deadlines.

Virtual Piano | Paper.js, Paperscript, Howler.js

Interactive piano web app with animations and sounds.

Pin Point | HTML/CSS, Javascript, Bootstrap, jQuery

Timing based browser game on a 2D grid with adjustable size and speed.