DENNIS YE

Software Developer

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, psycopg2, 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

- Implemented core features for an e-discovery tool that helps lawyers collect, consolidate, and present social media and messaging evidence
- Collected, prepared, and tested large datasets for the implementation of the **NLP** powered **context-aware** search feature, resulting in our **first place** finish at the 2018 AI Legal Challenge
- Engineered a scalable solution for extracting SMS/MMS data from iPhone backups, including support for older phones and backups as large as **40GB**
- Restructured large parts of the database schema, greatly improving data integrity and security, as well as enabling new features
- Built an admin panel with custom features, providing analytics on users and support for technical and non-technical team members

LUQL.IO
Sept 2016 | Dec 2017

Co-Founder, Full Stack Software Engineer — Waterloo, Canada

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

- Engineered a market-ready travel app that allows users to connect with local tour guides at their desired destinations
- Designed and developed database schema, REST API, and core endpoints using **Django** while following a **TDD** approach
- Built core libraries for **error handling** and **data validation**
- Initiated development of mobile application using **React Native** and **MobX**

Equitable Life of Canada
Jan 2017 | Aug 2017

Investment Analyst and Developer — Waterloo, Canada

Python, PostgreSQL, Flask, SQLAlchemy, pandas, matplotlib

- Developed analytical tools, systems, and data pipelines that assisted with essential day to day operations at a Canadian insurance company
- Overhauled and improved the yield curve model, a crucial component for pricing fixed income securities, using **SQLAlchemy** and **Scipy**
- Designed, developed, and tested data pipeline and core processes for new bond fund, leading to one of the most successful fund launches
- Built a data analytics tool using **Python** and **SQL** on the security lending program, resulting in the reallocation of assets and increased profits

PROJECTS

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

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, jQuery**

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