

JENNY GUAN



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HIGHLIGHT OF SKILLS -----

Languages:

Proficient: Python, JavaScript, CSS, HTML, SQL, Bash

Familiar: Swift, C#, Java, C++, C, VBA

Frameworks/Libraries:

React, Redux, Django, Unittest, Flexbox, Bootstrap, AWS

Tools:

Git, JIRA, DevTools, Jenkins, Charles, Postman, Google Analytics

EDUCATION -----

Candidate for Bachelor of Mathematics

University of Waterloo

Sept. 2016 - Aug. 2021

- Honours Computational Mathematics
- Minor in Computing and Combinatorics & Optimization

Relevant courses:

- Obj.-Oriented Soft. Dev. (C++, Bash)
- Algo. Design & Data Abstraction (C)
- Functional Programming (Racket)
- Data Types & Structures
- Databases (SQL)

OTHER EXPERIENCE -----

Camp Counsellor	Event Coordinator
Camp Bus Captain	Teaching Assistant
Residence Amb.	Student Mentor

INTERESTS -----

UI/UX Design	Bullet Journaling
Badminton	Painting
Calligraphy	

EXPERIENCE -----

FULL STACK WEB DEVELOPER, Polar

Remote | Sept. - Dec. 2020

- Expanded functionality in **Django** admin using **Python** and database migration scripts, allowing clients to add custom fields and grant special permissions
- Improved usability of web product in **JavaScript (React, Redux)** & **CSS** by creating dashboard features to simplify workflow for power users
- Traced and debugged issues using **VSCode** and Chrome **DevTools**
- Created tests using **Unittest** to uphold **75%** code coverage on **Jenkins**

iOS COMPUTER ENGINEER, Flybits Inc.

Toronto, ON | Jan. - Apr. 2020

- Developed SDK features in **Swift**, including image caching on main feed and handling JWTs in HTTP requests for faster and safer performance
- Implemented custom features on internal test app using Swift and Xcode **Simulator**, such as clearing iCloud Keychain to broaden testing capabilities
- Prepared and manually executed detailed test plans using Xcode **Instruments**, **Charles**, and exploratory testing to verify SDK release quality

FULL STACK WEB DEVELOPER, Properly Inc.

Toronto, ON | May - Aug. 2019

- Implemented and tested back-end systems with **AWS Serverless** infrastructure (**Lambda**, **S3**, **DynamoDB**, **CloudFormation**)
- Developed front-end of active listing site with **JavaScript (React, Redux)** & **CSS (Bootstrap, Flexbox)**, and set up **Google Analytics** website behaviour tracking
- Fetched data on problematic homes and displayed alert on operations portal by building end-to-end **Python** system, eliminating operations manual procedure
- Pulled MLS data using **RETS** framework in Python to power listing site

SOFTWARE DEVELOPER, BAML

Toronto, ON | Sept. - Dec. 2018

- Redesigned data retrieval in front-office trading system using **REST** endpoints created in **Java**, improving database security
- Formulated complex **SQL** parameterized queries and procedures to return client activity data from **MSSQL** database to populate reports
- Created GUI in **C#** using **WinForms** and **JasperReports** with custom options, results filtering, and Excel exportation options

PROJECTS -----

PERSONAL WEBSITE, jennyguan.codes

Sept. 2020

- Developed a **React** web app using **JavaScript** and **HTML**
- Designed a responsive and user-friendly interface using **CSS** and **Flexbox** layout

QUADRIS, UWaterloo CS246 Final Project

July 2018

- Developed a Tetris-like tile-matching game in a team of 3 using **C++**
- Handled block creation and levels with varying obstacles and block rarities
- Tested all commands and cases including block requests, queue, points, & reset

PREDICTIVE BOT, KPMG LLP.

Jan. - Apr. 2018

- Organized and facilitated Sky AI Team meeting to align vision and set task goals for a ML project to predict NBA game outcomes with a binary classifier
- Experimented with **Beautiful Soup** package in **Python** to web scrape historical game data into a database as input for algorithm