

Julian Lou

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SKILLS

Languages

Python, JavaScript, Java,
Golang, C++

Frameworks, etc.

Django, Flask, Express, Node.js

Other

Unix/Linux, Git, Travis CI, SQL,
Microsoft Azure

ACADEMIC

insightUBC (TypeScript) — *Powering the many tasks needed to run UBC*

JANUARY - APRIL 2018

- Implemented functionality to allow SQL-esque comparisons and aggregations when querying the back-end
- Created a high-coverage test suite of queries and unit tests using Mocha and Chai expectations
- Implemented a front-end UI, enabling querying the back-end JSON data through a RESTful API

sdv (Python) — *A simplified, distributed version control system using a relational DBMS*

OCTOBER - DECEMBER 2017

- Created an application layer connected to a SQLite database to integrate version control tasks with UI
- Designed a login form and overview page with Flask and Jinja2 using sessions to track users
- Reinforced validity of features by creating unit tests with pytest and frequently contributing to code reviews

EXTRACURRICULAR

osu!acc (Python) — *Presenting accuracy-related analytics for the rhythm game, osu!*

DECEMBER 2018 - PRESENT

- Designed a relational schema running on a PostgreSQL database using Django's native ORM
- Implementing a replay analyzer that makes requests to the osu! API and computes analytics
- Creating a page that presents analytics graphically using various charting libraries

ShiritoriBot (JavaScript) — *The Japanese word game shiritori, running on Node.js*

DECEMBER 2017 - PRESENT

- Designed a front-end using the Pug template language and Express.js framework
- Created a script to prune a series of JSON dictionary files for relevant data, reducing space by 95%

EDUCATION

The University of British Columbia — *BSc, Major in Computer Science*

SEPTEMBER 2014 - NOVEMBER 2018