

# Julian Lou

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## ACADEMIC

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

JANUARY - APRIL 2018

- Worked in a group of 2 using Agile methodologies over 5 sprints
- 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
- Implemented a replay analyzer that makes requests to the osu! API and computes analytics
- Created a form using Django's template language that uploads a file to be analyzed by the back-end
- 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 (In progress)

- 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%
- Creating customizable difficulty levels based on word frequency, parts of speech, etc.
- Tracking user statistics in a relational database and presenting them using various graphing libraries

## EDUCATION

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

SEPTEMBER 2014 - NOVEMBER 2018

## SKILLS

Python, JavaScript, Java, C/C++, Golang

Git, SQL, PostGreSQL, SQLite, Django, Flask, Jinja2, Express, Unix/Linux