

Jeffrey Kam

SKILLS

- Language: Python, PHP, C++, Java , JavaScript, Bash, Processing, Racket
- Technologies: GraphQL, SQL, LAMP, AWS, Heroku, Arduino
- Framework: Django, Flask (with SQLAlchemy, PyTest), Laravel, React/Redux
- Database: PostgreSQL, MySQL, Mongo

EXPERIENCES

APR 18' – Present

CANADIAN INTERCOLLEGIATE SAILING ASSOCIATION – Web Developer

- Built an open source regatta scoring system using **Django** that was used by 250+ users during the sailing competition (scores.cicsailing.ca)
- Wrote APIs in **Python** with custom authentication for each request
- Made custom build process (**Bash, SQL, Python, Travis CI**) for deployment

JAN 18' – Present

UW BLUEPRINT – Project Developer

Elevate Team: Social enterprise that uses game to help people with down syndrome

- Wrote REST APIs (with unit tests) in **Flask** for game (**Unity**) statistics analysis
- Built front-end dashboard components with **React/Redux**

Wikitongues Ontology Team: Nonprofit that helps language preservation

- Helped develop a general solution to support cross-language searching using **Python** (Pyramid), **Ruby**, and **Glottolog 3**
- Wrote utility scripts to help merge Glottolog 3's and Wikitongues' data

MAY 18' - AUG 18'

HORIZN – Software Developer Intern

- Built **Laravel** components for internal web app and wrote **Python** scripts and **SQL** queries to streamline clients' data transfer from local to **EC2** and **S3**
- Helped maintain clients' and Horizn's websites involving **LAMP** and CMS

OPEN SOURCE

OCT 18' - Present

DOCSIFY – Contributor

<https://github.com/docsifyjs/awesome-docsify>

- Built a **JavaScript** plug-in that allows direct dynamic embedding of PDF

SEP 17' – Present

BIOSYNTAX – Core Developer

<https://github.com/bioSyntax/bioSyntax>

- Wrote and maintained 3 syntax highlighting definitions for Sublime and Gedit

PUBLICATION

OCT 17' - AUG 18'

bioSyntax: syntax highlighting for computational biology (with A. Babaian, A. Ebou, A. Fegen, G. E. Novakovsky, J. Wong, D. Aïssi, L. Yao).

BMC Bioinformatics, electronically published on August 22, 2018,

DOI: <https://doi.org/10.1186/s12859-018-2315-y>

PROJECTS

DEC 18' - JAN 19'

KOUP-API

<https://github.com/lazypanda10117/koup-api>

- An API service for the game client of Koup (replica of board game 'Coup'), built with **Flask**, **PostgreSQL**, and **GraphQL** and deployed on **Heroku**.

OCT 16' – AUG 17'

CLASS SCHEDULER

<https://github.com/lazypanda10117/scheduler>

- Developed **genetic algorithms** in **Java** to generate block-based class schedules

ACHIEVEMENTS

SEP 17'

HACKSEQ17 (A BIOINFORMATICS HACKATHON BY UBC) – 1st Place

MAR 17'

CANADIAN COMPUTING COMPETITION (HONG KONG)– Honorable Mention

APR 16'

APP JAMMING SUMMIT 2016 – 1 of 16 Finalists

EDUCATION

SEP 17' – Present

CANDIDATE FOR BACHELOR OF MATHEMATICS – University of Waterloo

- Honours Computer Science and Pure Mathematics (Co-op) Program