

# Kevin Chan

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## Education

### University of British Columbia

*B.Sc, Honour's Computer Science and Microbiology*

*September 2015 - May 2019 (expected)*

- Academic honours: Dean's Honour List (all terms); Cumulative GPA: 3.87; Major GPA: 4.0

## Skills

### Languages

- *Proficient:* Python, Java, TypeScript, JavaScript
- *Working knowledge:* HTML/CSS, SQL, Bash, C++, C, R

### Technologies

- *Proficient:* macOS, Linux, git, Node.js
- *Working knowledge:* Vue.js, TravisCI, Gradle, Android, React Native, Docker, Conda, Homebrew

## Experience

### University of British Columbia (Parfrey lab)

Vancouver, BC

*Undergraduate Research Assistant*

*April 2017 - August 2018*

- Researched and developed a data analysis pipeline for microbial genome assembly using over 100 GB of high-throughput metagenomic sequence data. Funded by an NSERC USRA grant.
- Developed Python and Bash scripts to automate aspects of lab protocols and data analysis. Decreased wait times by over 10%.
- Migrated existing website from UBC CMS to Wordpress and basic CSS.
- Managed the lab's Git repository, data storage and machine backups on the department servers.

## Projects

### RoutineMe

*July 2018 - August 2018*

- Native Android application designed to log workout routines, add timed exercises to routines, and run them using a built-in timer.
- Written in Java, utilizes MVVM for effective design, Room Persistence Library and SQLite to store and retrieve application data.
- Performed automated tests, end-to-end testing and employed continuous integration for quality assurance.

### amphibNames

*June 2018 - July 2018*

- Full stack web application written in Node.js and Pug.js designed to update hundreds of historical amphibian taxonomies at once. Results are temporarily saved to disk with options for user to download.
- Queries two online databases via GET requests and parses HTML and text file responses to extract new taxonomies.

### Flights R' Us

*February 2018 - April 2018*

- Worked with 3 other team members to design and implement a full stack flight booking web application.
- Designed, refined and normalized E/R diagrams and database schemas for conceptual modeling.
- Created and implemented multiple raw SQL queries for customers and staff users.
- Written using Node.js, Sequelize, and PostgreSQL in the backend with Vue.js frontend.

### InsightUBC

*January 2018 - April 2018*

- Executed a scrum-based, agile process over 5 sprints to create a full stack web application to query historical university course data.
- Implemented REST endpoints and a backend query language to retrieve query results in JSON using TypeScript.
- Ensured quality with unit and integration tests and applying TDD.