

## Education

### Bachelor of Computer Science

8.13/9 GPA

- Expected graduation date April 2023. University of Victoria.

### Related Coursework

- Algorithms and Data Structures, Database Systems, Operating System, Computer Networking, Massive Datasets, Programming Languages, Compiler Construction, Human Computer Interaction, Data Mining, Randomized Algorithms, Music Retrieval Techniques, Linear Programming

### Activities

- President of the [UVic Programming Club](#) (Jan 2021 - now)
- Took part in the ICPC (International Collegiate Programming Contest) in 2019 and March 2021.
- Currently ranked **top 3** in [UVic Kattis Ranklist](#).

## Skills

**Proficient:** Python, C++, JavaScript, Java, SQL, Version control

**Prior Experience & Technologies:** C#, C, Scala, Spark, HTML/CSS, Flask, Node.js, Knockout.js, jQuery

## Experience

### University of Victoria - Teaching Assistant

Jan 2022-Apr 2022/Victoria, BC Canada

- Guide and assist Computer Science and Engineering students in understanding theories, programming, debugging, and problem solving.

### BlackBerry - Open Source Developer Intern

Sep 2021-Dec 2021/Mississauga, ON Canada

- Made sure the company was compliant with open source licences. I enabled analysts to do compliance scans by developing tools, scripts, and expanding capability of the existing tools mainly with Python and PostgreSQL.
- Optimized source code to reduce the execution time from approximately 10 hours to a few hours by using dynamic programming and concurrency.
- Designed and implemented database schema for analysts to verify their results. Also automated their tasks by writing a script to fill out information from the database, which reduced the amount of files analysts have to look at from several thousands to a few dozens.

### Helm Operations - Full Stack Software Developer Intern

Jan 2020-Aug 2020/Victoria, BC Canada

- Implemented new product features that increased productivity of members of work boat companies and fixed bugs in the production code. Used JavaScript, Knockout.js, HTML/CSS for frontend development.
- Wrote APIs and API tests by using ASP.NET with SQL Server database and JavaScript.
- Wrote end-to-end tests for new features and APIs using Puppeteer which helped reduce QAs' workload.

## Projects

### UVic Spookathon [🔗](#)

Built a web app in 3 hours that creates a custom story based on the user's action choices. Won **1st Prize** in UVic Spookathon 2019. Built with Google Text-to-Speech, Javascript, and HTML/CSS.

### An application to support information reception for the Deaf-Mute

A mobile app that translates speech to Ho Chi Minh Sign Language. Won **2nd National Prize** in Vietnam National Secondary Student Science and Engineering Fair (ViSEF) 2016-2017, a part of the [ISEF](#). Built with C#, .NET Framework, and SQLite.

### Kattis Performance Tracker [🔗](#)

A Flask app that keeps track of the problem solving statuses on [open.kattis.com](https://open.kattis.com) website. Built with Requests to log in the profile page, BeautifulSoup to get data, SQLite to store information and get records by grouping them by date and statuses, and Flask template, Javascript, and HTML/CSS to render processed information on a calendar.

### IELTS Speaking Simulator [🔗](#)

An Android app that helps people practice speaking English for the IELTS exam. Built with Java and Android Studio, SQLite to store questions, Android SpeechRecognizer to detect when the user speaks or stops, and Text-to-Speech to read the questions.