

Eugene Y. Q. Shen
eugene@eyqs.ca · +1 604 295 7569
eyqs.ca · github.com/eyqs · linkedin.com/in/eugeneyqshen

Education and Awards

UNIVERSITY OF BRITISH COLUMBIA; VANCOUVER, CANADA SEPTEMBER 2015–PRESENT

- 4.30 / 4.33 GPA, Faculty of Applied Science, Third Year [Engineering Physics](#), Minor in Honours Math.
- Received the [Trek Excellence Scholarship](#) every term, awarded to the top 5% in each faculty and year.
- Courses include [Operating Systems](#), [Principles of Software Construction](#), and [Algorithm Design](#).

11TH IN DIVISION ONE, [ACM-ICPC PACIFIC NORTHWEST REGIONALS](#) NOVEMBER 2016

- Used C++ and Python in a team of three for this algorithmic programming competition.

2ND IN DIVISION TWO, [ACM-ICPC PACIFIC NORTHWEST REGIONALS](#) NOVEMBER 2015

4TH IN ROUND ONE, [NORTH AMERICAN COMPUTATIONAL LINGUISTICS OLYMPIAD](#) MARCH 2015

2ND IN WESTERN CANADA, [CANADIAN COMPUTING COMPETITION](#), SENIOR DIVISION JANUARY 2014

Work Experience

SOFTWARE ENGINEERING INTERN, [NEXEDI](#); LILLE, FRANCE JANUARY 2017–APRIL 2017

- Prototyped a WebRTC messaging app for serverless browser-to-browser communication.
- Devised a message class for internal communications in Nexedi's ERP platform.
- Wrote a [tutorial on using Nexedi's RenderJS framework](#) to make a to-do app from scratch.

BACKEND DEVELOPER, [CHANGENUITY](#); REMOTE NOVEMBER 2016–PRESENT

- Designed a platform to match freelancers with global development projects, in a startup of five students.
- Managed full stack integration and built the platform backend using Ruby on Rails, Heroku, and AWS.

TEACHING ASSISTANT, UBC; VANCOUVER, CANADA JANUARY 2016–APRIL 2016

- Marked over 70 labs every week for an introductory C programming course.
- Made a [Python script](#) for myself and future markers to automatically display and compile the labs.

Technical Projects

FREE AND OPEN SOURCE SOFTWARE MARCH 2017–PRESENT

- Fixed bugs in software including [crouton](#), the [Ace text editor](#), and the [Chromium OS Audio Daemon](#).

AUTONOMOUS ROBOT JULY 2017–AUGUST 2017

- Built an [autonomous tape-following toy-grabbing robot](#) in a team of four students.
- Developed and tested 90% of the [microcontroller code for the robot](#), written in C.

SIGHT READING DRILL GENERATOR AUGUST 2016–JANUARY 2017

- Created a [Python script](#) to generate random musical intervals and arbitrary chords in Lilypond, which was adopted by the UBC Chair of Music Theory to generate graded sight-reading quizzes.
- Published the [alpha version](#) of an [Android app](#) for mobile practice with random intervals.

UBC PREREQUISITE TREE APRIL 2016–PRESENT

- Used natural language processing to generate prerequisite trees of UBC courses.
- Constructed a [Python web crawler](#) to scrape course data from multiple official sources.
- Ported the Python GUI to JavaScript for [online access](#) by the general public.