Eugene Y. Q. Shen

eugene@eyqs.ca · +1-604-295-7569
eyqs.ca/assets/cv.pdf · 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.

1ST IN SENIOR DESIGN CHALLENGE, UBC ENGINEERING COMPETITION	OCTOBER 2017
11TH IN DIVISION ONE, ACM-ICPC PACIFIC NORTHWEST REGIONALS	NOVEMBER 2016
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

- Contributed to software including Vimium, the Ace text editor, and the Chromium OS Audio Daemon.

COMPREHENSION ASSISTANT	SEPTEMBER 2017–OCTOBER 2017

- Integrated SyntaxNet into a custom frontend in a team of five for the 24-hour EduHacks hackathon.
- Devised algorithms that generate reading comprehension questions from user-inputted paragraphs.

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.