

Long Pham

Graduate Software Engineer



1166 Staghorn Cres
London, ON, CA
N5Y 5R1



+1 (519) 854-4878



github.com/longpham

linkedin.com/in/longpham93

longpham.ca



longmpham93@gmail.com

About me

I am a recently graduated at Western University studying a Master's in Engineering Science doing research on convolutional neural networks. In my free time, I love to play with my dog, go on backpacking trips, love to learn new technology and love playing video games.

Skills

C



Java



C++



Javascript



Python



Achievements

2018 NSERC Grant

2017 Tespa Overwatch Top-10

2017 OW Collegiate League Top-8

Attributes

Leader

Excellent Communication Skills

Problem Solver

Motivated to Learn

Dependent

Friendly

Education

- | | | |
|------------|--|--------------------|
| since 2019 | Master's of Engineering Science | Western University |
| | Software Engineering: Initialization of CNNs using Gabor Filters | |
| 2012-2016 | Bachelor's of Engineering Science | Western University |
| | Majored in Software Engineering | |

Publications

- | | |
|------|--|
| 2019 | Gabor Filter Initialization and Parameterization Strategies in Convolutional Neural Networks |
|------|--|

Work Experience

- | | | |
|------------|--|--------------------|
| since 2019 | Graduate Teaching Assistant | Western University |
| | Lead instructor for multiple courses including (1) microcontrollers, (2) software design, and (3) operating systems. Within these courses, I provided office hours, guidance, and organization between labs for over 500 cumulative students and fellow TAs. | |
| 2016 | Software Instructor for Elementary Students | Western University |
| | Instructed and created a simple HTML, JavaScript and CSS summer course for 25 elementary students in the summer using the Phaser.io | |

Projects

Gabor Filter Initialized Convolutional Neural Network Classifier

Thesis work that focused on the implementation of the Gabor filter used within a 7-layer convolutional neural network to classify 4 datasets consisting of almost 200,000 images in total. This network trained faster than other networks, but resulted in a slightly lower accuracy in comparison to other networks.

DE-10 Development Board Wrist Watch

Created a simple watch using the DE-10 development board programmed to use an ARM processor. The watch was able to compute time in milliseconds, seconds, minutes, and hours. The clock featured basic stop, reset, and lap capabilities. This was used for a lab for over 300 3rd year engineering students to practice assembly language as well as C.

Phasio.io 2-D Meteor Shooter Sandbox [↗](#)

Created a simple shooter using PhaserJS. Created simple AWSD controls using the mouse pointer to aim and shoot with. Extras such as high scores, lives, and weapon boosts were implemented as features. This game was created with JavaScript and was later used as a curriculum for 25 Grade 8 students interested in coding.

Personal Website, [longpham.ca](#) [↗](#)

Using the ReactJS library to build a frontend single page application that shows my personal achievements, past history, interests, and my resume.

Leadership Experiences

- | | |
|-----------|---|
| 2012-2019 | President of Western's Outdoors Club |
| | Long-term member of the Western Outdoors Club. Joined as a general member and quickly became part of the executives and helped organize and ran camping, backpacking, and canoe trips within Ontario, Canada for over 250 members. Maintained over \$10,000 worth of camping equipment. |
| 2016-2019 | Co-Captain of the Western's Collegiate Overwatch Team |
| | Main player on Western's Overwatch team for 3 years. Played in national tournaments such as TESPA and Ontario Collegiate League. |