Long Pham ↗

Masters Graduate of Software Engineering
https://github.com/longmpham ↗

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EDUCATION

Western University
Master of Engineering Science in Software Engineering

London, Ontario, Canada
Sept. 2016 – Apr. 2019

Western University
Bachelor of Engineering in Software Engineering

London, Ontario, Canada
Sept. 2012 – Apr. 2016

PROJECTS

- **Thesis: Gabor Filter Initialization and Parameterization in Convolutional Neural Networks**: Explored different initialization techniques to find whether the Gabor filter used within the first layer is an acceptable approach to training a CNN faster and more efficiently than using the standard initialization methods from literature.
- **Binary Classifier with Keras Pulling Photos from Google Images** ↗ : Created a simple binary classifier for pulling 100 images from a simple Google search (for example: Dog), augmenting the images to create a dataset and using a simple convolutional neural network to train and classify the image.
- **Wrist Watch Prototype Built with Intel's DE-10 Development Board**: 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.
- **Phaser.io 2-D Meteor Shower Shooter** ↗ : 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 with ReactJS, https://longpham.ca** ↗ : Built a personal portfolio using web technologies such as HTML, CSS and ReactJS to show my projects and experience.

PROGRAMMING SKILLS

- **Languages**: Python, C, JavaScript   **Technologies**: Keras, JetsonTX2, Intel Dev. Board

WORK EXPERIENCE

Western University
Graduate Teaching Assistant

London, Ontario, Canada
Oct 2016 - Present

- ○ **Lead TA**: Lead instructor for multiple courses including (1) microcontrollers, (2) software design, and (3) operating systems. Provided guidance, and organization between labs for over 500 cumulative students and fellow TAs.

Western University
Software Instructor

London, Ontario, Canada
Summer 2016

- ○ **Instructor for Elementary Students**: Instructed and created a simple HTML, JavaScript and CSS summer course for 25 elementary students in the summer using the Phaser.io JavaScript game engine.

LEADERSHIP EXPERIENCE

Western University
President of Western's Outdoors Club

London, Ontario, Canada
Sept. 2012 - Present

- ○ **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 new members per year
- ○ **Strong Leader**: Managed a team of 15 executives as well as 250 members. Ran meetings and assigned tasks to executives when needed.
- ○ **Inventory Management**: Kept track of well over $10,000 of camping equipment

Western University
Co-Captain of Western's Collegiate Overwatch Team

London, Ontario, Canada
Sept. 2016 - Dec. 2019

- ○ **Team Leader**: Naturally became the team leader and organized scrims, social gatherings, and helped lower-skilled teammates improve on their gameplay on a 1-to-1 basis.