Long Pham

Software Engineer - Systems Test Engineer (L2)

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EXPERIENCE

OSI Maritime Systems Ltd, Burnaby, BC, CA — *Systems Test Engineer (L2)*

NOV 2019 - PRESENT

Working through the engineering lifecycle, I read customer requirements, consult in design implementation, write test procedures and run through tests to verify the requirements and satisfy the customers' needs. I have also become a pivotal member of the team to lead younger employees and have become a great role-model and leader.

Western University, London, ON, CA — *Teaching Assistant*

SEPT 2016 - APR 2019

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.

Western University, London, ON, CA — *Software Instructor*

MAY 2016 - AUG 2016

Instructed and created a simple HTML, JavaScript and CSS summer course for 25 elementary students in the summer using the Phaser.io

EDUCATION

Western University, London, ON, CA — *Masters of Engineering Science - Software Engineering*

SEPT 2016 - APR 2019

After 3 years of studying, I graduated with a thesis published by the university in the research of deep learning using Gabor filters to increase the speed and efficiency of convolutional neural networks (CNN).

Western University, London, ON, CA — *Bachelors of Engineering Science - Software Engineering*

MONTH 20XX - MONTH 20XX

Built a foundation in engineering learning the software development lifecycle, while gaining knowledge with essential CS fundamentals.

SKILLS AND ATTRIBUTES

Software Development Lifecycle

Coding (Python, C, JavaScript)

Leader

Fast Learner

Problem Solver

Dependent

AWARDS

NSERC Research Grant (2019)

LANGUAGES

English (Primary)

Vietnamese (Secondary)

PROJECTS

CNN Classifier — *Using Gabor Filters as the first layer to introduce speed and efficiency vs minimal accuracy loss*

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.

Basic Watch — *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.

Personal Website — *Website Created with MERN (ReactJS)*

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

Phasio.io Shooter Mini-Game — *Phaser.io mini-game using the Phase Engine*

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.