

Long Pham

Software Engineer - Systems Test Engineer (P2)

Burnaby, BC, CA

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EXPERIENCE

OSI Maritime Systems Ltd, Burnaby, BC, CA — *Systems Test Engineer (P2)*

NOV 2019 - PRESENT

- Read and comprehend customer requirements, provide design implementation consultation, and develop test procedures based on customer requests.
- Conduct tests and validate requirements using multiple techniques, including black box, regression, and manual testing.
- Developed small scripts to streamline manual testing processes.
- Acted as a young leader, overseeing co-op students and junior engineers (P1) as a team lead.

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

SEPT 2016 - APR 2019

- Led multiple courses as the primary instructor, covering topics such as microcontrollers, software design, and operating systems.
- Provided office hours, guidance, and facilitated coordination between labs and fellow TAs.
- Served as a role model for over 500 students and fellow TAs.

EDUCATION

Masters of Engineering Science (M.E.Sc) in Software Engineering

@Western University, London, Ontario, Canada

SEPT 2016 - APR 2019

- Conducted research on deep learning using Gabor filters to enhance the speed and efficiency of convolutional neural networks (CNN). Published thesis through the university.

Bachelors of Engineering Science (B.E.Sc) in Software Engineering

@Western University, London, Ontario, Canada

SEPT 2012 - APR 2016

- Developed a strong foundation in engineering, focusing on the software development lifecycle and gaining essential computer science fundamentals.

SKILLS AND ATTRIBUTES

Software Development
Lifecycle

Coding (Python, C,
JavaScript, React, CSS,
HTML, MERN)

Leader

Fast Learner

Problem Solver

Dependent

CERTIFICATES

Canadian Security Clearance
(5 Years)

NATO Security Clearance (10
Years)

LANGUAGES

English (Primary)

Vietnamese (Secondary)

PROJECTS

Random Shorts Generator — *Video Generator used for short video clips*

- Developed a Python-based Video Generator using MoviePy and integrated third-party Python libraries for Text-to-Speech (TTS) and data scraping (Selenium, Playwright).
- Employed automated data gathering from external sources, compiling it into a JSON file to generate short video clips seamlessly.
- Automated the process up to video creation, leaving only the final step of uploading the clips to the service as a manual task.

Reddit Recaps Generator — *Video Generator used for video clips*

- Utilized Selenium and Playwright to scrape content from the popular Reddit sub-reddit, "AITA," transforming stories into short to medium video formats using Python and MoviePy.
- Generated a JSON file containing essential data for each video clip which includes the main content and comments that can be filtered
- Streamlined the process by automatically creating video clips with a single button press, ensuring mobile readiness for platforms like YouTube Shorts and TikTok.

Home Media Server — *Plex, alongside other services all containerized in Docker to provide my home its very own media service*

- Orchestrated a comprehensive Home Media Server by containerizing Plex, Radarr, Sonarr, Bazaar, Tdarr, and other services using Docker.
- Automated tasks such as content renaming and continuous updates, providing a seamless and efficient media server experience.
- Achieved portability across different computers through Docker Compose, ensuring the server's flexibility, with the only requirement being the transfer of media files.