

# Tien Phong Nguyen

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## PROFILE

Computer Science graduate and Software Developer with a strong foundation in full-stack web development and AI engineering. Experienced in building scalable applications using Next.js, TypeScript, React, and Prisma, alongside hands-on expertise in computer vision, instance segmentation, and search algorithms. A versatile programmer skilled in containerization, CI/CD pipelines, and delivering data-driven software solutions.

## EDUCATION

### BSc. Computer Science

UNIVERSITY OF BRITISH COLUMBIA OKANAGAN

Kelowna, BC | Sep 2022 – Apr 2026

## ACHIEVEMENTS

### UBC OKANAGAN | INTERNATIONAL MAJOR ENTRANCE SCHOLARSHIP

Kelowna, BC | 2022–2026

Prestigious merit-based award for outstanding academic achievement and extracurricular involvement.

### UBC OKANAGAN | OUTSTANDING INTERNATIONAL STUDENT AWARD

Kelowna, BC | 2022

Merit-based entrance scholarship recognizing academic excellence and extracurricular involvement.

### UBC OKANAGAN | AI FOR SOCIAL GOOD HACKATHON

Kelowna, BC | Sep 2024

Developed a wildfire indicator app leveraging AI to support public safety, collaborating in a fast-paced hackathon environment.

## WORK EXPERIENCE

### FREELANCE WEB DEVELOPER | CONTRACTOR

Kelowna, BC | May 2026–Present

- Partnered with an independent stakeholder to translate custom workflows, goals, and design requirements into functional, responsive web components.
- Managed end-to-end planning and full-stack development, ensuring code optimization, data privacy, and clean system integrations.
- Conducted testing, debugging, and regular code reviews to deliver an optimized end-user experience adhering to web performance standards.

### KOHA VIETNAMESE KITCHEN | SERVER

Kelowna, BC | Jan 2024–Present

- Delivered exceptional customer service in a high-volume environment, handling fast-paced client requests, communicating updates clearly, and resolving complaints to maximize satisfaction.
- Collaborated cross-functionally with back-of-house teams to optimize order workflows and maintain strict accuracy under tight time constraints.

## PROJECTS

### TA ALLOCATION AND MANAGEMENT WEBSITE [↗](#)

TYPESCRIPT, REACT, PRISMA

A responsive web application that assists the Computer Science (CMPS) department in effectively managing Teaching Assistant (TA) allocations. This system will not auto-schedule TAs but will support manual coordination, tracking, and feedback workflows.

### FLASHCARD STUDY WEBSITE [↗](#)

REACT, TYPESCRIPT, CI/CD

Developed a flashcard study web app with progress tracking, study modes, and deck sharing. Implemented design patterns (Factory, Iterator, Singleton) and automated testing in CI pipeline.

### UBLOG WEBSITE [↗](#)

REACT, TYPESCRIPT, JAVASCRIPT, CSS

Developed a full-stack blogging web application for UBC news, featuring interactive user engagement through article updates, viewing, and commenting systems. Implemented a modern tech stack using Next.js, TypeScript, and Prisma, with Docker containerization and automated Jest testing.

### PEDESTRIAN INSTANCE SEGMENTATION [↗](#)

PYTHON, COMPUTER VISION, AI

Developed an instance segmentation algorithm for pedestrian detection using Python. Implemented detection and classification pipeline, achieving accurate identification in real-world scenarios.

## FARM MANAGEMENT

ANDROID STUDIO, JAVA

Built an Android app for managing farm crops and schedules, demonstrating interest in agricultural technology and automation solutions.

## GAME OF AMAZONS AI

JAVA, AI

Built Monte Carlo Tree Search-based AI for Game of Amazons, ranking 2nd place in a competitive tournament. Showcased expertise in search algorithms and decision-making AI.

## SKILLS

**Programming & AI:** Python, PyTorch, TensorFlow, OpenCV, Machine Learning, Computer Vision

**Languages:** Java, C, C#, PHP, Assembly, Bash

**Web & Tools:** React, JavaScript, TypeScript, Node.js, HTML/CSS

**Databases & tools:** Git, Docker, Prisma, SQL, MongoDB, Android Studio,  $\LaTeX$