**BRIAN PHAN**

Corvallis, Oregon – Phone: 541-360-9231 – xuanbach1307@gmail.com – https://www.linkedin.com/in/brphan/ – <https://bachsofttrick.github.io/>

**EDUCATION**

**Oregon State University** 6/2026

*Master of Engineering, Computer Science*Corvallis, Oregon

**Ho Chi Minh University of Technology**

*Bachelor of Science, Electrical Engineering*Ho Chi Minh, Viet Nam

**WORK EXPERIENCE**

[**OREGONFLORA**](https://oregonflora.org/) 9/2025

Corvallis, Oregon – Software Developer

* Maintained and enhanced a research platform supporting thousands of daily users in Oregon.
* Improved the uploading process, reducing runtime from 2 hour to 2 minute.

**OSU EXTENSION SERVICE OUTDOOR SCHOOL** 9/2024 – 10/2024

Corvallis, Oregon – Web Assistant

* Maintained the portal through which school districts and teachers can access the application, reporting systems, resources for developing outdoor school programs.
* Supported migration from Umbraco 8 to Drupal 10, contributing to improved platform stability and performance.

**ICC INNOVATIVE CONSULTING** 9/2020 – 11/2022

Ho Chi Minh City, Vietnam – Software Developer

* Maintained and optimized a B2B distribution management system, focusing on promotions and deal calculation accuracy.
* Enhanced the activity generation algorithm, reducing runtime from 1 hour to 1 minute.
* Developed and deployed An Sinh, a large-scale social security relief application supporting 9 million citizens during COVID-19 in Ho Chi Minh City.

**PROJECTS**

[**REVERSI: MINIMAX VS MONTE CARLO**](https://github.com/bachsofttrick/reversi-ai531)– [Paper](https://github.com/bachsofttrick/reversi-ai531/blob/master/paper.pdf)

* Designed and compared performance of two AI algorithms against several games of Reversi, varying in configurations using multithreading.

[**OBJECT DETECTION AND MONITORING THROUGH UAV**](https://github.com/bachsofttrick/dronectrl-with-tracking) – [Paper](https://github.com/bachsofttrick/dronectrl-with-tracking/blob/master/paper.pdfhttps://github.com/bachsofttrick/dronectrl-with-tracking/blob/master/paper.pdf) | [Video 1](https://youtu.be/x6uBbzRVm_o) | [Video 2](https://youtu.be/1CBIk2xY5qs)

* Engineered a custom drone for searching, identifying, and following a designated subject while transmitting live video feeds to any RTSP-compatible device.

**SKILLS**

* Language: C/C++, C#, Python, Go, HTML, CSS, Javascript, Java, PHP, Bash
* Frontend: React, Vue
* Backend: .NET, NodeJS, NestJS, ExpressJS, Laravel, Drupal
* Database: MySQL, MongoDB, SQLite, Redis
* Tools: Git, Docker, Rancher
* Systems: Linux, Windows