


# Thang Pham

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## EDUCATION

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### University of Waterloo

*Candidate for Honours Bachelor in Computer Science, Co-op*

Waterloo, Canada

*Sep 2019 - May 2023 (expected)*

- Cumulative GPA: 92%.
- Michael and Ophelia Lazaridis Olympiad Scholarship:
  - Recipient of the Faculty of Mathematics' Olympiad Scholarship that covers full tuition and living expenses.

## EXPERIENCE

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### • Curvegrid

*Blockchain Software Engineer*

Tokyo, Japan

*May 2021 - Sep 2021*

- Designed and developed a reference implementation of MultiBaas Bridge, a cross-chain portal that allows fast and secure movement of digital assets across different blockchain platforms.
- Added smart contract integrations to allow MultiBaas Bridge server to operate the cross-chain movement of ERC20 and ERC721 tokens using a multisig contract.
- Worked on migrating the company's front-end stack from Vuetify 1 with Javascript to Vuetify 2 with Typescript and upgrading the back-end API system to version 1.0.

### • Curvegrid

*Blockchain Software Engineer*

Tokyo, Japan

*May 2020 - Sep 2020*

- Maintained the codebase of Multibaas, a middleware framework to build blockchain application with REST APIs. Developed the application's server in Golang and front-end components in Javascript with Vue.js.
- Rewrote the handling logic for GET events API endpoint with pagination, improving the performance by 2 times.
- Implemented new event and address tables to manage blockchain data using a web-based control panel.

### • VinAI Research

*ML Engineer Intern*

Hanoi, Vietnam

*May 2019 - Sep 2019*

- Developed a deep learning project for quantifying the percentage of people wearing masks on the street in real-time.
- Trained a custom model using the SSH model for face detection and a Resnet50 model for masked face classification.
- Achieved 96.5% accuracy during inference and an average real-time performance of 10-15 FPS.
- Source code: <https://github.com/aome510/Mask-Classifer>.

## AWARDS

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### • ICPC East Central North America Regional Contest

*Gold Medalist - Ranked 2/105*

Windsor, Canada

*Oct 2019*

### • International Olympiad in Informatics

*Gold Medalist - Ranked 10/336*

Tsukuba, Japan

*Sep 2018*

### • Asia-Pacific Olympiad in Informatics

*Gold Medalist - Ranked 12/187*

Hanoi, Vietnam

*May 2018*

## PROJECTS

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### • Hacker News TUI:

- Used Rust to build a fast and configurable terminal application for reading Hacker News articles and discussions.
- Hit the front-page of Hacker News during the first official release.

### • Spotify Player:

- Built a music player in Rust to control Spotify using commands and listen to music on the terminal.

### • Anime Music Generator:

- Trained a bidirectional recurrent neural network that generates classical anime songs using Tensorflow and deployed it to Heroku as a simple Django web app.

## SKILLS

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- Languages: Rust, Golang, Typescript/Javascript, C/C++, Python, Scala, SQL
- Technologies: Vue.js, Node.js, Pytorch, Tensorflow
- Tools: Unix/Linux, Git, PostgreSQL, Docker, Github actions