


# Thang Pham

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## EDUCATION

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### University of Waterloo

Waterloo, Canada

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

*Sep 2019 - May 2023 (expected)*

- Cumulative GPA: 92/100.
- Michael and Ophelia Lazaridis Olympiad Scholarship:
  - One of four recipients of 2019 to receive the Faculty of Mathematics's Olympiad Scholarship that covers full tuition and living expenses.

## EXPERIENCE

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### • Curvegrid

Tokyo, Japan

*Blockchain Software Engineer*

*Summer 2020, 2021*

- MultiBaas:
  - Maintained a **Go** back-end server that interacts with smart contracts and queries contract events in the blockchain using REST API.
  - Built event and address tables as **Vue.js** components for managing blockchain data with an intuitive web-based control panel.
- MultiBaas Bridge:
  - 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.
  - Implemented **ChainBridge** smart contract integration for operating cross-chain movement of ERC20 and ERC721 tokens using a voting system with off-chain relayers.

### • VinAI Research

Hanoi, Vietnam

*ML Engineer Intern*

*May - Sep 2019*

- Mask Classifier:
  - Developed a deep learning project for quantifying the percentage of people wearing masks on the street in real-time.
  - Trained a **Resnet50**-based model built on top of the **SSH model** for face detection and 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

Windsor, Canada

*Gold Medalist - Ranked 2/105*

*Oct 2019*

### • International Olympiad in Informatics

Tsukuba, Japan

*Gold Medalist - Ranked 10/336*

*Sep 2018*

### • Asia-Pacific Olympiad in Informatics

Hanoi, Vietnam

*Gold Medalist - Ranked 12/187*

*May 2018*

## PROJECTS

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- Hacker News TUI:
  - A fast and customizable Hacker News client written in **Rust** for reading news on the terminal.
  - Hit the **front-page** of Hacker News during the first official release.
  - Source code: <https://github.com/aome510/hackernews-TUI>.
- Spotify Player:
  - An easy-to-use and configurable player written in **Rust** for controlling Spotify with commands.
  - Source code: <https://github.com/aome510/spotify-player>.
- Anime Music Generator:
  - A **Django/JavaScript** web app that generates classical anime songs using recurrent neural networks.
  - Source code: <https://github.com/aome510/Generating-Anime-Music>.

## SKILLS

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- Languages: Rust, Golang, Typescript/JavaScript, C/C++, Python, Scala, SQL
- Frameworks: Vue.js, Node.js, React.js, Tensorflow, PyTorch
- Tooling: Unix/Linux, git, PostgreSQL, Docker, Github actions