

Thang Pham

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EDUCATION

University of Waterloo

Candidate for Honours Bachelor in Computer Science, Co-op

Waterloo, Canada

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

• Curvegrid

Blockchain Software Engineer

Tokyo, Japan

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

ML Engineer Intern

Hanoi, Vietnam

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

• 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

• 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

- 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