

Trung Vuong-Thien

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🔗 [trungams.github.io](https://github.com/trungams)

📄 github.com/trungams

SKILLS

- **Languages:** C/C++, Python, Java, Go, Javascript, MATLAB, L^AT_EX
- **Technologies:** Flask, Airflow, Snowflake, Folly, React, Docker, gRPC, Qt, OpenCV

EXPERIENCE

- **SnapCommerce** Toronto, ON
Backend Software Engineer Intern *May 2021 – Aug 2021*
 - Migrate an old product catalogue of 9M+ records to use a partner API with higher accuracy and efficiency.
 - Develop core features for online payment service, improve overall security of the REST API.
- **Private Hedgefund** Singapore
Software Developer Intern *Jan 2021 – Apr 2021*
 - Develop internal tool using **C++** and **Python** for a team of researchers and data scientists.
- **NoviFlow Inc.** Montreal, QC
Software Developer Intern *Jan 2020 – Aug 2020*
 - Develop and maintain an SDN controller in **C++** for large networks with throughput up to 6.5 Tbps.
 - Improve high availability of the application with a **MongoDB** cluster.
- **School of Computer Science, McGill University** Montreal, QC
Teaching Assistant – Operating Systems, Computer Networks *Sep 2019 – Apr 2021*
 - Host tutorials, monitor discussion boards, help instructor prepare and grade assignments.
- **Advanced Networking Research Lab, McGill University** Montreal, QC
Research Assistant – supervised by Prof. Muthucumaru Maheswaran *Dec 2018 – Aug 2019*
 - Build a **Python**-based network simulator for SDN teaching and research.
 - Develop Proof-of-Concept SDN applications using **OpenFlow** and **P4** for benchmarking.

AWARDS

- **ACM-ICPC NA Championship 2021:** Placed **10th** out of 48 teams and qualified for World Finals 2021.
- **IEEEExtreme 2021:** Placed **2nd** in Canada in a 24-hour programming competition.
- **ACM-ICPC NA Championship 2020:** Placed **8th** out of 60 teams and qualified for World Finals 2020.
- **Tomlinson Engagement Award for Mentoring:** For excellence in mentoring at McGill University.
- **Best Design Project at McHacks 2018:** Built a terminal-based farming game in **Python**.

PROJECTS

- **Monitoring-as-a-Service in SDN - Honours Research Project** *Sep 2019 – Dec 2019*
 - Create a **P4** program to monitor cloud services using selective port mirroring in SDN switches.
- **World Cube Association translations - Open-source** *Dec 2017 – Present*
 - Translate the regulations, website, and other official documents of the WCA to Vietnamese.
- **Docker-OVS Network Driver - Open-source** *June 2019*
 - Develop a network driver for container networking using **OpenvSwitch** and **OpenFlow**.

EDUCATION

- **McGill University** Montreal, QC
Bachelor of Science, Honours Computer Science *Sep 2016 – May 2021*