# Duc Nguyen

ducnguyen.dev
triduc.nguyen@mail.concordia.ca

+1-(514)-754-2030
github.com/DukeNgn
linkedin.com/in/ductringn

## EXPERIENCE

**Concordia University – Undergraduate Research Assistant**　　　　Montreal, QC
*Concordia Data System Lab (CoDS)*　　　　*June. 2021 – Present*
- Working under the supervision of Dr. Essam Mansour in big data discovery field.

**HackConcordia – Director of Technology / Software Developer**　　　　Montreal, QC
*Technology Division*　　　　*June. 2021 – Present*
- Strategically plan and prepare the technical infrastructure for ConUHacks 2022 - Montreal biggest annual hackathon.

**DRW Trading – Software Developer Intern**　　　　Montreal, QC
*Event-driven Trading Division in a High-frequency Trading Firm*　　　　*May. 2021 – Present*
- Develop and apply a diff mechanism to compare web snapshots and extract meaningful insights for traders, using OpenCV and Scikit-image package.
- Implement an efficient mechanism to crawl, take screenshots of 700+ urls daily, then store in a remote Ubuntu server, using Python with Selenium and Docker.

**Ericsson – Open-source Software Developer Intern**　　　　Montreal, QC
*Eclipse-Theia Team (theia-ide.org): Open-source Cloud & Desktop IDE framework*　　　　*Sept. 2020 – April. 2021*
- Authored and developed @theia/external-terminal (1000+ weekly downloads) – a Theia package that contributes the ability to interact with native terminals, using TypeScript, Node.js, React.js and Electron.
- Reduced average test wait time by nearly 90% in theia-ide/theia-apps (a set of 15 Docker images) by integrating the CI-CD workflow to GitHub Actions.
- Authored and maintained Selene IDE – a cross-platform IDE based on Theia for illustration purpose.
- Assisted project maintainers to close/merge pull requests by carefully reviewing and testing code from the open-source community.

## PROJECTS

**Personal Website**: ducnguyen.dev (for additional information and projects)
**CleverICE - 1st Place of Intact Challenge in ToHacks 2021 (out of 41 submissions) (DukeNgn/CleverICE)**
Efficiently built back-end service, integrated GPT-3 Open-AI, and created customer database on CockroachDB for CleverICE - a web app that helps insurance companies to faster the insurance claim process from customers.
Utilized: Python, Flask, Open-AI, Cockroach SQL, CockroachDB

**COVID-19 Detector - HackThe6ix 2020 (DukeNgn/covid19-detector)**
Led a team to build a web app that determines the probability of a person contracting with COVID-19 based on Chest CT Scan images. A Machine Learning model was trained on Azure platform with Python and Flask to perform the tasks.
Utilized: Python, Flask, HTML/CSS, JavaScript, Bootstrap, Azure Custom Vision, Azure Deployment

## EDUCATION

**Concordia University**　　　　Montreal, QC
*Bachelor of Computer Science, Software Systems CO-OP*　　　　*Sept. 2017 – Present*
**McGill University - Desautels Faculty of Management**
*Personal Finance Essentials (Certificate)*　　　　*Jul. 2020*

## VOLUNTEER & SOCIETY

**Concordia Institute for Co-operative Education**: CO-OP Mentor
**Unmanned Aerial Vehicles (UAV) Concordia**: Software Team Member
**Concordia Access Centre for Students with Disabilities**: Note Taker
**Golden Key Honor Society - Concordia Charter**: Honor Member
**HackThe6ix - 2018**: Hackathon Staff Member

## SKILLS

**Programming**: TypeScript, JavaScript, Java, Python, R, C++
**Tools**: Git, Docker, Node.js, Electron, React.js, Flask, MySQL, Jekyll
**Platforms**: GitHub, GitLab, TravisCI, GitHub Actions, Microsoft Azure, Google Cloud, Heroku
**Others**: Vim/NeoVim, Emacs, LaTeX, Markdown
**Languages**: French (Intermediate), English, Vietnamese