

EMPLOYMENT

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- 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 Proprietary Trading Firm May. 2021 – Present
- Research and develop a diff algorithm to compare web snapshots and extract meaningful insights.
 - Implement an efficient mechanism to crawl and take screenshots of 700+ urls daily and store in a remote Ubuntu server, using Python with Selenium and Docker to containerize the service.
- 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.

EDUCATION

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- Concordia University** Montreal, QC
Bachelor of Computer Science, Software Systems CO-OP Sept. 2017 – Present
- DataCamp**
Introduction to R for Finance (Certificate) April. 2021
- Linkedin Learning**
Git Intermediate Techniques (Certificate) Mar. 2021
- McGill University - Desautels Faculty of Management**
Personal Finance Essentials (Certificate) Jul. 2020

PROJECTS

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- 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

VOLUNTEER & SOCIETY

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- Concordia Institute for Co-operative Education:** CO-OP Mentor
- Unmanned Aerial Vehicles (UAV) Concordia:** Software Team Member
- Society of Automotive Engineers (SAE) Concordia:** Aeroconnect 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

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- 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