

EDUCATION

Montreal, QC <i>Bachelor of Computer Science, CO-OP</i>	Concordia University	Sept. 2017 – Present
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WORK EXPERIENCE

Software Developer, Intern <i>Institutional Securities Technology Division in an Investment Bank</i>	Morgan Stanley	Jan. 2022 – Apr. 2022 Montreal, QC
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Software Developer, Intern <i>Event-driven Trading Team in a High-frequency Trading Firm</i>	DRW Trading	May 2021 – Aug. 2021 Montreal, QC
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- Worked in a team of 10 to develop pipelines to notify algorithmic trading events and monitor sites of interest.
- Introduced a Computer Vision solution to compare thousands of web snapshots and extract differences on-demand, using OpenCV, Scikit-image, and Tesseract OCR.
- Implemented a concurrent system and a Flask API service for queueing and processing jobs triggered by users.
- Built a REST API service to report HTTP failures from 800+ URLs daily, using Python with FastAPI.
- Created an efficient mechanism to crawl, poll, handle and manage large datasets daily for algorithmic trading, using Python with Selenium and Docker.

Utilized: Python, Pytest, FastAPI, Flask, Django, OpenCV, Scikit-image, Tesseract, Selenium, Docker, REST API

Undergraduate Research Assistant <i>Concordia Data System Lab (CoDS) - under the supervision of Dr. Essam Mansour</i>	Concordia University	May 2021 – Aug. 2021 Montreal, QC
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- Integrated [SHAP](#) to a variety of Machine Learning models to explain how different inputs affect the end results.
- Trained multiple classifiers using Gradient Boosting Technique, using Python with XGBoost.
- Built an interface to demo the Knowledge Graph system using React.js and FastAPI.

Utilized: Python, Jupyter Notebook, SHAP, FastAPI, JavaScript, Node.js, React.js

Software Developer, Intern <i>Eclipse Theia Team (theia-ide.org) in a Telecommunications Company</i>	Ericsson Corporation	Sept. 2020 – Apr. 2021 Montreal, QC
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- Contributed to [Eclipse Theia \(15k+ stars on GitHub\)](#) - an Open-source Cloud & Desktop IDE framework.
- Authored and developed [@theia/external-terminal](#) (2000+ 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 writing shell scripts and integrating the CI-CD workflow to GitHub Actions.
- Collaborated with the open-source community and internal engineers to develop, test, and deliver new features.

Utilized: TypeScript, JavaScript, Node.js, React.js, Electron, Docker, GitHub Actions, TravisCI

LEADERSHIP EXPERIENCE

Campus Expert <i>GitHub Education Program</i>	GitHub Education	Oct. 2021 – Present Montreal, QC
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- Got selected by GitHub out of tens of thousands of applications to build a diverse and inclusive technical community.

Vice President of Technology <i>Technology Team</i>	HackConcordia	May 2021 – Present Montreal, QC
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- Leading tech team to prepare the technical infrastructure for ConUHacks to serve over 700 participants.

CO-OP Mentor <i>Institute for Co-operative Education</i>	Concordia University	May 2021 – Present Montreal, QC
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- Host workshops and meetings to coach students to succeed in careers, resulting in a 100% internship-secured rate.

PROJECTS

CleverICE - 1st Place of Intact Challenge in TOHacks 2021 (out of 41 submissions) ([DukeNgn/CleverICE](#))

Efficiently implemented back-end service, integrated GPT-3 Open-AI, and created customer database on CockroachDB for a web app that speeds up the insurance claim process for customers.

SKILLS

Programming: Python, TypeScript, JavaScript, Java, C++

Technologies: Git, Electron, React.js, Express.js, Node.js, Flask, FastAPI, Django, MongoDB, CockroachDB, Docker

Others: Digital Ocean, GitHub, Heroku, Google Cloud Platform, Microsoft Azure